

TEST REPORT

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The results relate only to the item tested.

Number: BKKH17013681

Applicant: PLAN CREATIONS CO., LTD.
8 MOO 8, TRANG-PALIAN RD.,
YANTAKAO, TRANG, THAILAND 92140
ATTN: K.NARONG, K.SUPAPORN

Date: Dec 13, 2017

Sample description:

Quantity of sample:	One (1) set
Sample description:	Wooden toy
Date sample received:	November 07, 2017
Date Information received:	December 11, 2017

Client Information:

One (1) set of submitted sample said to be SPIN N FLY AIRPLANE

Item Name:	SPIN N FLY AIRPLANE
Item Number:	5197



Tests conducted:

As requested by the applicant, for details please refer to attached pages.

Authorized by :
For Intertek Testing Services (Thailand) Ltd.,
Hardlines Laboratory



Ladtaka Wongwiboonporn
Laboratory Manager
Hardlines Department

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Conclusion:

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Submitted samples	EN71-1 : 2014 Mechanical and physical properties	Pass
	EN71-2 : 2011 + A1 : 2014 Flammability test	Pass
	EN71-3 : 2013 + A1 : 2014 Migration of certain elements	Pass**

Note:

**As requested by the applicant, the test was conducted only on components listed in this report.☐
Other components were not tested.
The components as below were comply to EN71-3 : 2013 + A1 : 2014,

<u>Components</u>	<u>Report No.</u>	<u>Date</u>
Solid Wood	BKKH17000142	Jan 10, 2017
WHITE COATING ON WOOD	BKKH17008951	Aug 01, 2017
YELLOW COATING ON WOOD	BKKH17008951	Aug 01, 2017
LACQUER COATING ON WOOD	BKKH17008951	Aug 01, 2017
ORANGE COATING ON WOOD	BKKH17008951	Aug 01, 2017
LIGHT BROWN COATING ON WOOD	BKKH17014799	Dec 08, 2017
BLACK COATING ON WOOD	BKKH17014799	Dec 08, 2017
BLUE COATING ON WOOD	BKKH17014795	Dec 08, 2017
GLUE	BKKH17008462	Jul 14, 2017



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Test conducted:

- 1 Mechanical and Physical Test
As per European Standard on Safety of toys EN71-1 : 2014.

Age group for testing : For age over 3 years

Clause	Requirements	Assessment
4	General requirements	
4.1	Material	P
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	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



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Test conducted:

Clause	Requirements	Assessment
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
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 non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24 [▲]	Yo-yo balls	NA
4.3	Toys attached to food	NA
5	Toys intended for children under 36 months	
5.1	General requirements for children under 36 months	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
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
6	Packaging	NA
7	Warnings, markings and instructions for use	



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Test conducted:

Clause	Requirements	Assessment
7.1	General	NA
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, inlineskates and skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	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
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 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA

Abbreviation : P = Pass NA = Not Applicable



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Test conducted:

Below are additional information according to the Toy Safety Directive 2009/48/EC requirement.
These information also appears as a note within the EN71 but are not standard requirements
and not accredited:

Marking

The manufacturer's and importer's name, registered trade name or registered trade mark,
the address and type, batch, serial or model number or other element allowing their identification
shall be indicated on the product itself. In addition, toys or packagings shall also bear the CE-marking.

After checking, it was found that

	Toy	Packaging
Manufacturer's name	Present	Present
Manufacturer's address	Absent	Present
Importer's name	Absent	Absent
Importer's address	Absent	Absent
Product identification code	Absent	Present
CE-marking	Absent	Present

Remark: Only artwork of packaging was provided for review.

Testing period : November 07, 2017 to November 10, 2017



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Number: BKKH17013681

2 Flammability Test

As per European Standard on Safety of Toys EN71-2 : 2011 + A1 : 2014.

<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
4.1	General	P
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

Remark : P = Pass NA = Not applicable

Testing period : November 07, 2017 to November 10, 2017



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Number: BKKH17013681

Test conducted:

3 19 Toxic elements migration test

(A) Test result

With reference to BS EN 71-3: 2013 +A1 : 2014. Determined by ICP-MS and GC-MS.

Category (III): Scraped-off toy material

<u>Element (Soluble)</u>	<u>Result (mg/kg)</u>					<u>LOD</u>	<u>LOQ</u>	<u>Limit</u>
	(1)	(2)	(3)	(4)	(5)	(mg/kg)	(mg/kg)	(mg/kg)
Aluminium (Al)	ND	1577	276	ND	5	1	5	70000
Antimony (Sb)	ND	ND	ND	ND	ND	1	5	560
Arsenic (As)	ND	0.2	ND	ND	ND	0.02	0.1	47
Barium (Ba)	ND	ND	682	ND	6	1	5	18750
Boron (B)	ND	ND	10	7	6	1	5	15000
Cadmium (Cd)	ND	ND	ND	ND	1.1	0.02	0.1	17
Chromium (Cr) Δ	0.018	0.291	0.246	0.067	0.363	0.001	0.005	-
Chromium (III) (Cr III) ▲	NC	0.291	0.627	0.247	0.363	-	-	460
Chromium (VI) (Cr VI) ▲	NC	<0.2#	<0.2#	<0.2#	<0.2#	-	-	0.2
Cobalt (Co)	ND	ND	ND	ND	ND	0.2	1	130
Copper (Cu)	ND	ND	ND	ND	5	1	5	7700
Lead (Pb)	ND	ND	ND	ND	6	0.2	1	160
Manganese (Mn)	42	9	9	ND	15	1	5	15000
Mercury (Hg)	ND	ND	ND	ND	ND	0.2	1	94
Nickel (Ni)	ND	ND	ND	ND	ND	1	5	930
Selenium (Se)	ND	ND	ND	ND	ND	1	5	460
Strontium (Sr)	7	ND	9	ND	ND	1	5	56000
Tin (Sn) ΔΔ	ND	ND	1	<1	ND	0.2	1	180000
Organic tin	NC	NC	NC	NC	NC	1	3	12
Zinc (Zn)	ND	35	12	7	13	1	5	46000

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Test conducted:

19 Toxic elements migration test

(A) Test result

With reference to BS EN 71-3: 2013 +A1 : 2014. Determined by ICP-MS and GC-MS.

Category (III): Scraped-off toy material

<u>Element (Soluble)</u>	<u>Result (mg/kg)</u>				<u>LOD</u>	<u>LOQ</u>	<u>Limit</u>
	(6)	(7)	(8)	(9)	(mg/kg)	(mg/kg)	(mg/kg)
Aluminium (Al)	1350	ND	191	<5	1	5	70000
Antimony (Sb)	ND	ND	ND	ND	1	5	560
Arsenic (As)	0.1	ND	ND	ND	0.02	0.1	47
Barium (Ba)	ND	ND	448	ND	1	5	18750
Boron (B)	ND	6	7	ND	1	5	15000
Cadmium (Cd)	ND	1.5	ND	ND	0.02	0.1	17
Chromium (Cr) Δ	0.151	0.092	0.484	ND	0.001	0.005	-
Chromium (III) (Cr III) ▲	0.419	1.262	0.484	NC	-	-	460
Chromium (VI) (Cr VI) ▲	<0.2#	<0.2#	<0.2#	NC	-	-	0.2
Cobalt (Co)	ND	ND	ND	ND	0.2	1	130
Copper (Cu)	ND	ND	34	ND	1	5	7700
Lead (Pb)	2	ND	ND	ND	0.2	1	160
Manganese (Mn)	ND	20	8	ND	1	5	15000
Mercury (Hg)	ND	ND	ND	ND	0.2	1	94
Nickel (Ni)	ND	ND	ND	ND	1	5	930
Selenium (Se)	ND	ND	ND	ND	1	5	460
Strontium (Sr)	ND	15	<5	ND	1	5	56000
Tin (Sn) ΔΔ	1	ND	4	ND	0.2	1	180000
Organic tin	NC	NC	NC	NC	1	3	12
Zinc (Zn)	36	ND	9	<5	1	5	46000

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Test conducted:

Remark: mg/kg = Milligram per kilogram = ppm
< = Less than
NC = Not conducted
ND = Not detected (Less than LOD)
LOD = Limit of Detection
LOQ = Limit of Quantitation
▲ = Tested items are not included in the TISI Accreditation

Δ= If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium (III) and Chromium (VI).

ΔΔ = If the migration of total Tin is below the maximum limit for Organic Tin, it can be inferred that the material complies with the requirements for Organic Tin.

- Organic tin test result was expressed as tributyl tin.

- As per EC decision 2013/492/EU of 7 October 2013 and in accordance with Court's Order of 15 May 2013 in case T-198/12R, the European Commission authorizes that the national provisions notified by the Federal Republic of Germany concerning limit values for Antimony(Sb)(60mg/kg), Arsenic (As)(25mg/kg), Mercury (Hg)(60mg/kg), Barium (Ba)(1000mg/kg) and Lead (Pb)(90mg/kg) in toys be maintained beyond 20 July 2013.

= 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).

* = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

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Test conducted:

Tested components:

	Report	Date
(1) Solid Wood	REFER BKKH17000142	Jan 10, 2017
(2) WHITE COATING ON WOOD	REFER BKKH17008951	Aug 01, 2017
(3) Yellow coating on wood	REFER BKKH16015643	Nov 07, 2016
(4) Lacquer coating on wood	REFER BKKH16013998	Oct 03, 2016
(5) ORANGE COATING ON WOOD	REFER BKKH17008951	Aug 01, 2017
(6) LIGHT BROWN COATING ON WOOD	REFER BKKH17008553	Jul 20, 2017
(7) Black Coating On Wood	REFER BKKH16016482	Nov 24, 2016
(8) BLUE COATING ON WOOD	REFER BKKH17014795	Dec 08, 2017
(9) GLUE	REFER BKKH17008462	Jul 14, 2017

Note:

1. The toxic elements of EN71-3(2013) was not conducted on the above components of samples. Applicant claimed the components were tested on our previous test report.
2. According to European standard on safety of toys EN71-3 (2013). As received, the test portion of the components are less than 10 mg, therefore such components were not tested for toxic.
3. As requested by the applicant, EN71-3 (2013) test was conducted only on components listed in this report. Other components were not tested.



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Test conducted:

(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).

Comment:

When tested as specified, the results of the tested components MET the 19 toxic elements limits of the European Council Directive 2009/48/EC and amendment 2012/7/EU on the Safety of Toys.

Note: LOD and LOQ value in this test report were effective since October, 2014

*****END*****/KS/NK

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