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## TEST REPORT

Number: BKKH16005545

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

Date: Jun 07, 2016

### Sample description:

Quantity of sample:	One (1) set
Sample description:	Wooden toy
Date sample received:	April 19, 2016
Date Information received:	June 03, 2016

### Client Information:

One (1) set of submitted sample said to be FARM ANIMAL SET

Item Name: FARM ANIMAL SET  
Item Number: 7135



### Tests conducted:

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

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Authorized by :

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

*Ladtaka Wongwiboonporn*

Ladtaka Wongwiboonporn  
Laboratory Manager  
Hardlines Department

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## TEST REPORT

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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**

Remark: \* = Please draw your attention on clause 7 in test report.

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Note: \*\* = The components as below was comply to EN71-3 : 2013 + A1 : 2014.

<u>Components</u>	<u>Report No.</u>	<u>Date</u>
5020038 : Lacquer Water Base	BKKH15000568	Jan 21, 2015
5020005 Pink coating on wood	BKKH15009442	Jul 27, 2015
White elastic	BKKH15010102	Aug 07, 2015
Solid wood	BKKH15014517	Nov 20, 2015
5329128 Brown Coating On Wood	BKKH15014516	Nov 27, 2015
5020029 White Coating On Wood	BKKH15014509	Nov 27, 2015
5320019 Black Coating On Wood	BKKH15014515	Nov 27, 2015
Leather	BKKH16006850	May 19, 2016
White Fabric	BKKH16007191	May 23, 2016
Pink Elastic	BKKH16007676	Jun 01, 2016
5260082 : White Plastic	BKKH15014746	Nov 27, 2015

\*\*\*\*\*

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## TEST REPORT

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Test conducted:

1 Mechanical and Physical Test

As per European Standard on Safety of toys EN71-1 : 2014.

Applicant's specified age group for testing : For age over 3 years.

Clause	Requirements	Results
<b>4</b>	<b>General requirements</b>	
4.1	Material cleanliness	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
<b>7</b>	<b>Warnings, markings and instructions for use</b>	See remark
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass #

Note : The above clauses appropriate to this item. Those clauses not referred to were considered not applicable.

# = Age warning statement, graphical symbol and the indication of hazard was found on the packaging.

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Test conducted:

Remark :

Below are 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 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:

- Manufacturer's name was on the packaging & toy.
- Manufacturer's address was on the packaging.
- Importer's name was missed on the packaging & toy.
- Importer's address was missed on the packaging & toy.
- Product identification code was on the packaging.
- CE-marking was on the packaging.
- CE-marking was in correct format.

Testing period : April 19, 2016 to April 27, 2016

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## TEST REPORT

Number: BKKH16005545

Test conducted:

### 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 : April 19, 2016 to April 27, 2016

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Number: BKKH16005545

## TEST REPORT

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	479	<5	<5	16	1	5	70000
Antimony (Sb)	ND	ND	ND	ND	ND	1	5	560
Arsenic (As)	ND	ND	ND	ND	ND	0.02	0.1	47
Barium (Ba)	ND	10	ND	ND	411	1	5	18750
Boron (B)	<5	<5	ND	ND	<5	1	5	15000
Cadmium (Cd)	ND	<0.1	ND	<0.1	<0.10	0.02	0.1	17
Chromium (Cr) Δ	0.06	0.232	0.017	0.025	0.095	0.001	0.005	-
Chromium (III) (Cr III) ▲	NC	NC	NC	NC	NC	-	-	460
Chromium (VI) (Cr VI) ▲	NC	<0.2#	NC	NC	NC	-	-	0.2
Cobalt (Co)	ND	ND	ND	ND	ND	0.2	1	130
Copper (Cu)	<5	ND	128	ND	ND	1	5	7700
Lead (Pb)	ND	<1	ND	1	ND	0.2	1	160
Manganese (Mn)	<5	<5	<5	40	6	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)	ND	ND	ND	22	<5	1	5	56000
Tin (Sn) ΔΔ	<1	ND	ND	3	ND	0.2	1	180000
Organic tin	NC	NC	NC	NC	NC	1	3	12
Zinc (Zn)	14	148	ND	8	8	1	5	46000

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Number: BKKH16005545

## TEST REPORT

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)	(10)	(mg/kg)	(mg/kg)	(mg/kg)
Aluminium (Al)	1383	<5	5	<5	<5	1	5	70000
Antimony (Sb)	ND	ND	ND	<5	ND	1	5	560
Arsenic (As)	<0.1	ND	<0.1	ND	ND	0.02	0.1	47
Barium (Ba)	<5	7	13	ND	ND	1	5	18750
Boron (B)	16	<5	<5	<5	ND	1	5	15000
Cadmium (Cd)	<0.1	<0.10	ND	ND	ND	0.02	0.1	17
Chromium (Cr) Δ	0.204	0.102	0.078	0.18	0.062	0.001	0.005	-
Chromium (III) (Cr III) ▲	NC	NC	NC	NC	NC	-	-	460
Chromium (VI) (Cr VI) ▲	<0.2#	NC	NC	ND	NC	-	-	0.2
Cobalt (Co)	ND	ND	ND	ND	ND	0.2	1	130
Copper (Cu)	<5	ND	<5	15	ND	1	5	7700
Lead (Pb)	1	<1	<1	<1	ND	0.2	1	160
Manganese (Mn)	9	10	<5	ND	<5	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)	<5	<5	8	ND	ND	1	5	56000
Tin (Sn) ΔΔ	ND	ND	4	<1	ND	0.2	1	180000
Organic tin	NC	NC	NC	ND	NC	1	3	12
Zinc (Zn)	11	8	<5	6	1536	1	5	46000

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## TEST REPORT

Number: BKKH16005545

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>(mg/kg)</u>	<u>LOQ</u> <u>(mg/kg)</u>	<u>Limit</u> <u>(mg/kg)</u>
	(11)			
Aluminium (Al)	ND	1	5	70000
Antimony (Sb)	ND	1	5	560
Arsenic (As)	ND	0.02	0.1	47
Barium (Ba)	ND	1	5	18750
Boron (B)	ND	1	5	15000
Cadmium (Cd)	ND	0.02	0.1	17
Chromium (Cr) Δ	0.015	0.001	0.005	-
Chromium (III) (Cr III) ▲	NC	-	-	460
Chromium (VI) (Cr VI) ▲	NC	-	-	0.2
Cobalt (Co)	ND	0.2	1	130
Copper (Cu)	ND	1	5	7700
Lead (Pb)	ND	0.2	1	160
Manganese (Mn)	ND	1	5	15000
Mercury (Hg)	ND	0.2	1	94
Nickel (Ni)	ND	1	5	930
Selenium (Se)	ND	1	5	460
Strontium (Sr)	ND	1	5	56000
Tin (Sn) ΔΔ	ND	0.2	1	180000
Organic tin	NC	1	3	12
Zinc (Zn)	12	1	5	46000

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## TEST REPORT

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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 REPORT

Number: BKKH16005545

Test conducted:

Tested components:

	Report	Date
(1) 5020038 : Lacquer Water Base	REFER BKKH15000568	Jan 21, 2015
(2) 5020005 Pink coating on wood	REFER BKKH15009442	Jul 27, 2015
(3) White elastic	REFER BKKH15010102	Aug 07, 2015
(4) Solid wood	REFER BKKH15014517	Nov 20, 2015
(5) 5329128 Brown Coating On Wood	REFER BKKH15014516	Nov 27, 2015
(6) 5020029 White Coating On Wood	REFER BKKH15014509	Nov 27, 2015
(7) 5320019 Black Coating On Wood	REFER BKKH15014515	Nov 27, 2015
(8) Leather	REFER BKKH16006850	May 19, 2016
(9) White Fabric	REFER BKKH16007191	May 23, 2016
(10) Pink Elastic	REFER BKKH16007676	Jun 01, 2016
(11) 5260082 : White Plastic	REFER BKKH15014746	Nov 27, 2015

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 REPORT

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/ST

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