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Number: BKKH16002638

TEST REPORT

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

Date: Mar 31, 2016

Sample description:

Quantity of sample: One (1) set
Sample description: Wooden toy
Date sample received: March 03, 2016
Date Information received: March 29, 2016

Client Information:

One (1) set of submitted sample said to be Chalet dollhouse with furniture/Chalet dollhouse

Item Name: Chalet dollhouse with furniture/Chalet dollhouse
Item Number: 7602/7609



Tests conducted:

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

Authorized by :
For Intertek Testing Services (Thailand)

Ladtaka Wongwiboonporn
Laboratory Manager
Hardlines Department

Intertek Testing Services (Thailand) Ltd.

1285/5 Prachachuen Road, Wong-Sawang, Bangsue, Bangkok 10800 Thailand

Tel.: (662) 837-2999 Fax: (662) 837-2936

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Conclusion:

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Submitted samples	EN71-1 : 2014 Mechanical and physical properties excluding requirement of clause 6 and 7	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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TEST REPORT

Number: BKKH16002638

Conclusion:

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
White elastic	BKKH15010102	Aug 07, 2015
PC Mirror	BKKH15014388	Nov 18, 2015
Solid wood	BKKH15014517	Nov 20, 2015
5023015 Orange Sawdust	BKKH15014508	Nov 25, 2015
5023006 Red Sawdust	BKKH15014511	Nov 26, 2015
5023007 Yellow Sawdust	BKKH15014511	Nov 26, 2015
5023008 Violet Sawdust	BKKH15014511	Nov 26, 2015
5023009 Blue Sawdust	BKKH15014512	Nov 27, 2015
5029037 Red Coating On Wood	BKKH15014512	Nov 27, 2015
5020035 Yellow Coating On Wood	BKKH15014510	Nov 27, 2015
5020036 Green Coating On Wood	BKKH15014510	Nov 27, 2015
5020029 White Coating On Wood	BKKH15014509	Nov 27, 2015
5020030 Yellow Coating On Wood	BKKH15014509	Nov 27, 2015
5029040 Orange Coating On Wood	BKKH15014513	Nov 30, 2015
5029064 Violet Coating On Wood	BKKH15014513	Nov 30, 2015
5140015 Orange Coating On Wood	BKKH15014514	Nov 27, 2015
5023003 : Orange Sawdust	BKKH15015045	Dec 09, 2015
5260030/5260031 White plastic joint	BKKH16001064	Jan 29, 2016
MDF Wood	BKKH16001067	Jan 29, 2016
5023005 Green Sawdust	BKKH16001067	Jan 29, 2016
5293653 : White Elastic	BKKH16004152	Mar 28, 2016
5329194 : Yellow Coating On Wood	BKKH16003697	Mar 18, 2016
5080068 : White/Green Fabric	BKKH16004151	Mar 28, 2016
5080079 : Yellow Fabric	BKKH16004151	Mar 28, 2016
5080016 : Red/White Fabric	BKKH16004151	Mar 28, 2016
Black Rubber (7652)	BKKH15007652	Jun 16, 2015

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TEST REPORT

Number: BKKH16002638

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
4	General requirements	
4.1	Material cleanliness	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.16	Heavy immobile toys	Pass
7	Warnings, markings and instructions for use	See remark
7.1	General	#1
7.2	Toys not intended for children under 36 months	Pass #2

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

= No Final packaging was submitted for testing. Hence, clause 7.1 General requirement for Warnings, markings and instructions for use was not assessed.

= 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 toy.
- Manufacturer's address was missed on the toy.
- Importer's name was missed on the toy.
- Importer's address was missed on the toy.
- Product identification code was on the toy.
- CE-marking was not on the toy.

Testing period : March 03, 2016 to March 22, 2016

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TEST REPORT

Number: BKKH16002638

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	P

Remark : P = Pass NA = Not applicable

Testing period : March 03, 2016 to March 11, 2016

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Number: BKKH16002638

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	<5	7	<5	ND	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	ND	ND	ND	<5	1	5	18750
Boron (B)	<5	ND	ND	ND	25	1	5	15000
Cadmium (Cd)	ND	ND	ND	<0.1	<0.1	0.02	0.1	17
Chromium (Cr) Δ	0.06	0.017	0.018	0.025	0.021	0.001	0.005	-
Chromium (III) (Cr III) ▲	NC	NC	NC	NC	NC	-	-	460
Chromium (VI) (Cr VI) ▲	NC	NC	NC	NC	NC	-	-	0.2
Cobalt (Co)	ND	ND	ND	ND	ND	0.2	1	130
Copper (Cu)	<5	128	ND	ND	ND	1	5	7700
Lead (Pb)	ND	ND	ND	1	<1	0.2	1	160
Manganese (Mn)	<5	<5	ND	40	41	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	8	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	ND	ND	8	8	1	5	46000

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(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)	<5	<5	<5	19	7	1	5	70000
Antimony (Sb)	ND	ND	ND	ND	ND	1	5	560
Arsenic (As)	ND	<0.1	<0.1	<0.1	<0.1	0.02	0.1	47
Barium (Ba)	<5	<5	<5	13	7	1	5	18750
Boron (B)	40	59	74	59	29	1	5	15000
Cadmium (Cd)	<0.1	<0.1	<0.1	<0.1	<0.1	0.02	0.1	17
Chromium (Cr) Δ	0.024	0.183	0.039	0.062	0.262	0.001	0.005	-
Chromium (III) (Cr III) ▲	NC	NC	NC	NC	NC	-	-	460
Chromium (VI) (Cr VI) ▲	NC	NC	NC	NC	<0.2#	-	-	0.2
Cobalt (Co)	ND	ND	<1	ND	ND	0.2	1	130
Copper (Cu)	ND	<5	ND	ND	<5	1	5	7700
Lead (Pb)	1	1	2	1	<1	0.2	1	160
Manganese (Mn)	51	57	97	53	27	1	5	15000
Mercury (Hg)	ND	ND	<1	ND	ND	0.2	1	94
Nickel (Ni)	ND	<5	ND	ND	<5	1	5	930
Selenium (Se)	ND	ND	ND	ND	ND	1	5	460
Strontium (Sr)	9	13	13	7	5	1	5	56000
Tin (Sn) ΔΔ	ND	ND	<1	ND	ND	0.2	1	180000
Organic tin	NC	NC	NC	NC	NC	1	3	12
Zinc (Zn)	9	12	12	14	12	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

Element (Soluble)	Result (mg/kg)					LOD (mg/kg)	LOQ (mg/kg)	Limit (mg/kg)
	(11)	(12)	(13)	(14)	(15)			
Aluminium (Al)	222	263	1383	146	<5	1	5	70000
Antimony (Sb)	ND	ND	ND	ND	ND	1	5	560
Arsenic (As)	<0.1	<0.1	<0.1	<0.1	<0.1	0.02	0.1	47
Barium (Ba)	7	<5	<5	9	9	1	5	18750
Boron (B)	35	32	16	36	33	1	5	15000
Cadmium (Cd)	0.25	1.15	<0.1	0.29	<0.1	0.02	0.1	17
Chromium (Cr) Δ	0.329	0.266	0.204	0.193	0.308	0.001	0.005	-
Chromium (III) (Cr III) ▲	NC	NC	NC	NC	NC	-	-	460
Chromium (VI) (Cr VI) ▲	<0.2#	<0.2#	<0.2#	NC	<0.2#	-	-	0.2
Cobalt (Co)	ND	ND	ND	ND	ND	0.2	1	130
Copper (Cu)	<5	<5	<5	<5	<5	1	5	7700
Lead (Pb)	<1	<1	1	<1	<1	0.2	1	160
Manganese (Mn)	14	11	9	19	15	1	5	15000
Mercury (Hg)	ND	ND	ND	ND	ND	0.2	1	94
Nickel (Ni)	<5	ND	ND	<5	ND	1	5	930
Selenium (Se)	ND	ND	ND	ND	ND	1	5	460
Strontium (Sr)	<5	ND	<5	<5	<5	1	5	56000
Tin (Sn) ΔΔ	ND	ND	ND	ND	ND	0.2	1	180000
Organic tin	NC	NC	NC	NC	NC	1	3	12
Zinc (Zn)	115	84	11	69	28	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

Element (Soluble)	Result (mg/kg)					LOD (mg/kg)	LOQ (mg/kg)	Limit (mg/kg)
	(16)	(17)	(18)	(19)	(20)			
Aluminium (Al)	493	86	5	ND	63	1	5	70000
Antimony (Sb)	ND	ND	ND	ND	ND	1	5	560
Arsenic (As)	<0.1	<0.1	ND	ND	ND	0.02	0.1	47
Barium (Ba)	7	5	<5	ND	6	1	5	18750
Boron (B)	37	13	8	ND	7	1	5	15000
Cadmium (Cd)	0.16	0.15	<0.1	ND	ND	0.02	0.1	17
Chromium (Cr) Δ	0.341	0.295	1.097	<0.005	0.105	0.001	0.005	-
Chromium (III) (Cr III) ▲	NC	NC	NC	NC	NC	-	-	460
Chromium (VI) (Cr VI) ▲	<0.2#	<0.2#	<0.2#	NC	NC	-	-	0.2
Cobalt (Co)	ND	ND	ND	ND	ND	0.2	1	130
Copper (Cu)	<5	<5	ND	ND	<5	1	5	7700
Lead (Pb)	<1	<1	2	ND	1	0.2	1	160
Manganese (Mn)	18	33	46	ND	68	1	5	15000
Mercury (Hg)	ND	ND	ND	ND	ND	0.2	1	94
Nickel (Ni)	<5	<5	ND	ND	<5	1	5	930
Selenium (Se)	ND	ND	ND	ND	ND	1	5	460
Strontium (Sr)	<5	<5	7	ND	11	1	5	56000
Tin (Sn) ΔΔ	ND	ND	ND	ND	<1	0.2	1	180000
Organic tin	NC	NC	NC	NC	NC	1	3	12
Zinc (Zn)	177	9222	9	5	7	1	5	46000

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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

Element (Soluble)	Result (mg/kg)					LOD (mg/kg)	LOQ (mg/kg)	Limit (mg/kg)
	(21)	(22)	(23)	(24)	(25)			
Aluminium (Al)	<5	<5	ND	<5	13	1	5	70000
Antimony (Sb)	ND	<5	ND	ND	ND	1	5	560
Arsenic (As)	ND	ND	ND	ND	ND	0.02	0.1	47
Barium (Ba)	<5	ND	ND	<5	<5	1	5	18750
Boron (B)	138	ND	ND	ND	10	1	5	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	0.02	0.1	17
Chromium (Cr) Δ	0.113	0.026	0.012	0.022	0.044	0.001	0.005	-
Chromium (III) (Cr III) ▲	NC	NC	NC	NC	NC	-	-	460
Chromium (VI) (Cr VI) ▲	NC	NC	NC	NC	NC	-	-	0.2
Cobalt (Co)	ND	ND	ND	ND	ND	0.2	1	130
Copper (Cu)	ND	ND	ND	ND	ND	1	5	7700
Lead (Pb)	<1	ND	ND	ND	<1	0.2	1	160
Manganese (Mn)	36	ND	ND	ND	9	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)	6	ND	6	ND	<5	1	5	56000
Tin (Sn) ΔΔ	ND	ND	ND	<1	<1	0.2	1	180000
Organic tin	NC	NC	NC	NC	NC	1	3	12
Zinc (Zn)	7	180	277	<5	<5	1	5	46000

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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>
	(26)	(27)	(mg/kg)	(mg/kg)	(mg/kg)
Aluminium (Al)	<5	<5	1	5	70000
Antimony (Sb)	ND	ND	1	5	560
Arsenic (As)	ND	ND	0.02	0.1	47
Barium (Ba)	ND	ND	1	5	18750
Boron (B)	ND	ND	1	5	15000
Cadmium (Cd)	ND	ND	0.02	0.1	17
Chromium (Cr) Δ	0.046	0.074	0.001	0.005	-
Chromium (III) (Cr III) ▲	NC	NC	-	-	460
Chromium (VI) (Cr VI) ▲	NC	NC	-	-	0.2
Cobalt (Co)	ND	ND	0.2	1	130
Copper (Cu)	<5	ND	1	5	7700
Lead (Pb)	<1	ND	0.2	1	160
Manganese (Mn)	ND	ND	1	5	15000
Mercury (Hg)	ND	ND	0.2	1	94
Nickel (Ni)	<5	ND	1	5	930
Selenium (Se)	ND	ND	1	5	460
Strontium (Sr)	ND	ND	1	5	56000
Tin (Sn) ΔΔ	ND	ND	0.2	1	180000
Organic tin	NC	NC	1	3	12
Zinc (Zn)	<5	190	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) 5020038 : Lacquer Water Base	REFER BKKH15000568	Jan 21, 2015
(2) White elastic	REFER BKKH15010102	Aug 07, 2015
(3) PC Mirror	REFER BKKH15014388	Nov 18, 2015
(4) Solid wood	REFER BKKH15014517	Nov 20, 2015
(5) 5023015 Orange Sawdust	REFER BKKH15014508	Nov 25, 2015
(6) 5023006 Red Sawdust	REFER BKKH15014511	Nov 26, 2015
(7) 5023007 Yellow Sawdust	REFER BKKH15014511	Nov 26, 2015
(8) 5023008 Violet Sawdust	REFER BKKH15014511	Nov 26, 2015
(9) 5023009 Blue Sawdust	REFER BKKH15014512	Nov 27, 2015
(10) 5029037 Red Coating On Wood	REFER BKKH15014512	Nov 27, 2015
(11) 5020035 Yellow Coating On Wood	REFER BKKH15014510	Nov 27, 2015
(12) 5020036 Green Coating On Wood	REFER BKKH15014510	Nov 27, 2015
(13) 5020029 White Coating On Wood	REFER BKKH15014509	Nov 27, 2015
(14) 5020030 Yellow Coating On Wood	REFER BKKH15014509	Nov 27, 2015
(15) 5029040 Orange Coating On Wood	REFER BKKH15014513	Nov 30, 2015
(16) 5029064 Violet Coating On Wood	REFER BKKH15014513	Nov 30, 2015
(17) 5140015 Orange Coating On Wood	REFER BKKH15014514	Nov 27, 2015
(18) 5023003 : Orange Sawdust	REFER BKKH15015045	Dec 09, 2015
(19) 5260030/5260031 White plastic joint	REFER BKKH16001064	Jan 29, 2016
(20) MDF Wood	REFER BKKH16001067	Jan 29, 2016
(21) 5023005 Green Sawdust	REFER BKKH16001067	Jan 29, 2016
(22) 5293653 : White Elastic	REFER BKKH16004152	Mar 28, 2016
(23) 5329194 : Yellow Coating On Wood	REFER BKKH16003697	Mar 18, 2016
(24) 5080068 : White/Green Fabric	REFER BKKH16004151	Mar 28, 2016
(25) 5080079 : Yellow Fabric	REFER BKKH16004151	Mar 28, 2016
(26) 5080016 : Red/White Fabric	REFER BKKH16004151	Mar 28, 2016
(27) Black Rubber (7652)	REFER BKKH15007652	Jun 16, 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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Number: BKKH16002638

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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