

TEST REPORT

The report shall not be reproduced without written approval from Intertek
The results relate only to the item tested.

Number: BKKH18009132S2

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

Date: Aug 09, 2019
**This report supersedes
The previous report
Date Sep 05, 2018**

Sample description:

Quantity of sample:	One (1) set
Sample description:	Wooden toy
Date sample received:	July 10, 2018
Date sample resubmitted:	August 08, 2018
Date Information received:	July 19, 2019

Client Information:

One (1) set of submitted sample said to be FOLKLIFT

Item Name: FOLKLIFT
Item Number: 6124



Tests conducted:

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

For and on behalf of :
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 + A1 : 2018 Mechanical and physical properties	Pass
	EN71-2 : 2011 + A1 : 2014 Flammability test	Pass
	EN71-3 : 2013 + A2 : 2017 Migration of certain elements	Pass**

Note:

**The chemical test results was not conducted on the below components of samples.
Applicant claimed the components were tested on our previous test report.

<u>Components</u>	<u>Report No.</u>	<u>Date</u>
PLYWOOD	BKKH18008767	Jul 10, 2018
SOLID WOOD	BKKH18008754	Jul 10, 2018
LACQUER COATING ON WOOD	BKKH18008771	Jul 12, 2018
CREAM PLASTIC	BKKH18008760S1	Jul 12, 2018
WHITE PLASTIC	BKKH18010025	Aug 01, 2018
BLACK RUBBER	BKKH18009792	Jul 23, 2018
Gray Rubber	BKKH18009243	Jul 17, 2018
Orange/Black Coating on Rubber	BKKH18009243	Jul 17, 2018
WHITE PLASTIC JOINT	BKKH18008761	Jul 11, 2018
WHITE PLASTIC	BKKH18008761	Jul 11, 2018
RED COATING ON WOOD	BKKH18008770	Jul 12, 2018

Remark:

As requested by applicant to change version from EN71-1 : 2014 to EN71-1 : 2014+A1:2018 on July 19, 2019.
No sample was submitted for testing.



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Test conducted:

1 Mechanical and Physical Test[▲]

Test standard: **European Standard on Safety of toys EN71-1 : 2014 + A1 : 2018**

Applicant's specified testing age : **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	P
7.2	Toys not intended for children under 36 months	P
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

Remark: ▲ = Tested items are not included in the TISI Accreditation



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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:

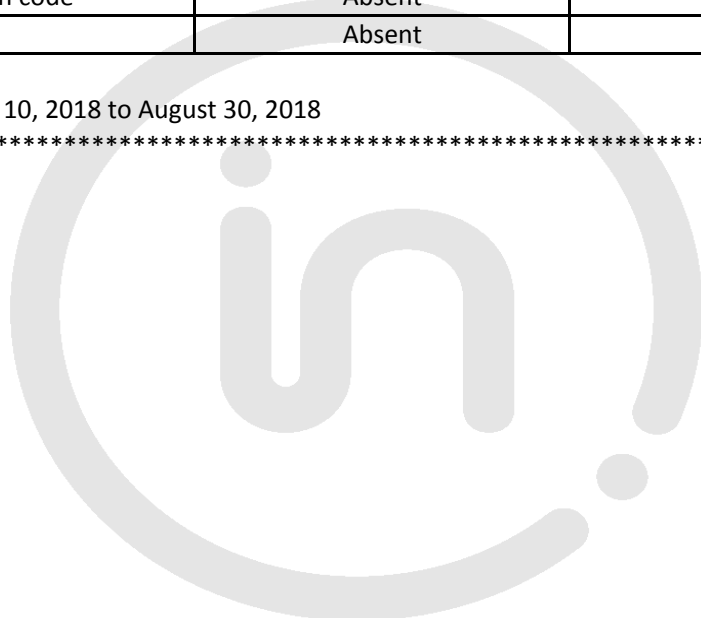
Marking

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

Testing period : July 10, 2018 to August 30, 2018



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Number: BKKH18009132S2

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 : July 10, 2018 to July 24, 2018



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Number: BKKH18009132S2

Test conducted:

3 19 Toxic elements migration test[▲]

(A) Test result

With reference to EN 71-3: 2013 + A2 : 2017. Determined by ICP-MS, LC-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)	<5	ND	10	ND	<5	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	7	<5	ND	ND	1	5	18750
Boron (B)	14	<5	35	ND	ND	1	5	15000
Cadmium (Cd)	0.2	ND	ND	ND	ND	0.02	0.1	17
Chromium (Cr) Δ	NC	0.033	0.168	ND	0.032	0.001	0.005	-
Chromium (III) (Cr III)	0.022	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)	ND	2	<1	ND	ND	0.2	1	23 ^{▲▲}
Manganese (Mn)	52	64	23	ND	ND	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)	12	11	6	ND	ND	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)	63	19	26453	<5	94	1	5	46000



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Test conducted:

19 Toxic elements migration test[▲]

(A) Test result

With reference to EN 71-3: 2013 + A2 : 2017. Determined by ICP-MS, LC-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)	ND	ND	ND	ND	<5	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	ND	1	5	18750
Boron (B)	ND	ND	ND	ND	ND	1	5	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	0.02	0.1	17
Chromium (Cr) Δ	0.043	0.012	0.053	ND	ND	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)	ND	ND	ND	ND	ND	0.2	1	23 ^{▲▲}
Manganese (Mn)	ND	ND	ND	ND	ND	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	ND	ND	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)	142	162	93	17	94	1	5	46000



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Test conducted:

19 Toxic elements migration test[▲]

(A) Test result

With reference to EN 71-3: 2013 + A2 : 2017. Determined by ICP-MS, LC-ICP-MS and GC-MS.

Category (III): Scraped-off toy material

<u>Element (Soluble)</u>	<u>Result (mg/kg)</u>	<u>LOD (mg/kg)</u>	<u>LOQ (mg/kg)</u>	<u>Limit (mg/kg)</u>
	(11)			
Aluminium (Al)	237	1	5	70000
Antimony (Sb)	ND	1	5	560
Arsenic (As)	ND	0.02	0.1	47
Barium (Ba)	604	1	5	18750
Boron (B)	<5	1	5	15000
Cadmium (Cd)	ND	0.02	0.1	17
Chromium (Cr) Δ	0.796	0.001	0.005	-
Chromium (III) (Cr III)	0.796	-	-	460
Chromium (VI) (Cr VI)	<0.2#	-	-	0.2
Cobalt (Co)	ND	0.2	1	130
Copper (Cu)	ND	1	5	7700
Lead (Pb)	ND	0.2	1	23 ^{▲▲}
Manganese (Mn)	5	1	5	15000
Mercury (Hg)	ND	0.2	1	94
Nickel (Ni)	ND	1	5	930
Selenium (Se)	ND	1	5	460
Strontium (Sr)	<5	1	5	56000
Tin (Sn) ΔΔ	5	0.2	1	180000
Organic tin	NC	1	3	12
Zinc (Zn)	7	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
▲▲ = The new lead migration limit [(2.0mg/kg for Category (I), 0.5mg/kg for category (II) and 23 mg/kg for Category (III)] was quoted from directive (EU) 2017/738 amending 2009/48/EC effective from 28 October 2018.

- The new chromium (VI) migration limit (0.053mg/kg) for Category (III) was quoted from directive (EU) Directive 2018/725 amending 2009/48/EC effective from 18 November 2019.

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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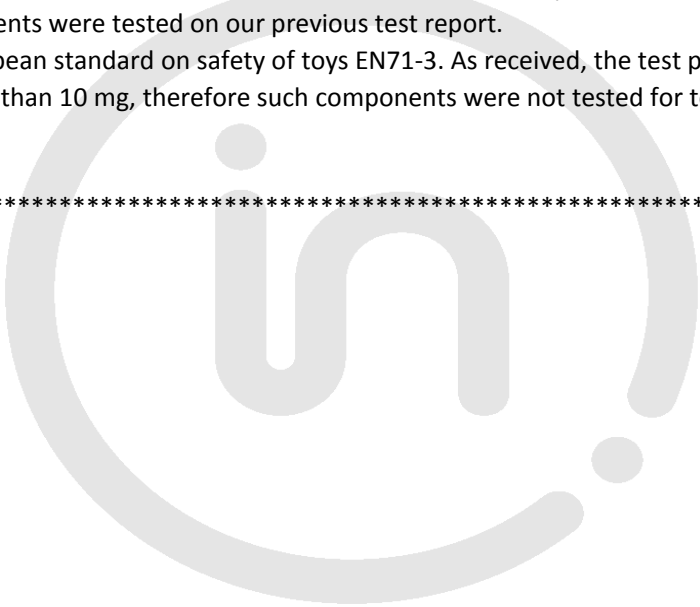
Test conducted:

Tested components:

	Report	Date
(1) PLYWOOD	REFER BKKH18008767	Jul 10, 2018
(2) SOLID WOOD	REFER BKKH18008754	Jul 10, 2018
(3) LACQUER COATING ON WOOD	REFER BKKH18008771	Jul 12, 2018
(4) CREAM PLASTIC	REFER BKKH18008760S1	Jul 12, 2018
(5) WHITE PLASTIC	REFER BKKH18010025	Aug 01, 2018
(6) BLACK RUBBER	REFER BKKH18009792	Jul 23, 2018
(7) Gray Rubber	REFER BKKH18009243	Jul 17, 2018
(8) Orange/Black Coating on Rubber	REFER BKKH18009243	Jul 17, 2018
(9) WHITE PLASTIC JOINT	REFER BKKH18008761	Jul 11, 2018
(10) WHITE PLASTIC	REFER BKKH18010025	Aug 01, 2018
(11) RED COATING ON WOOD	REFER BKKH18008770	Jul 12, 2018

Note:

1. The toxic elements of EN71-3 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. As received, the test portion of the components are less than 10 mg, therefore such components were not tested for toxic.



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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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