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The results relate only to the item tested.



Number: BKKH18009529

Nov 20, 2018

Date:

Applicant: PLAN CREATIONS CO., LTD.

8 MOO 8, TRANG-PALIAN RD.,

YANTAKAO, TRANG, THAILAND 92140 ATTN: K.NARONG, K.SUPAPORN

### Sample description:

Quantity of sample: One (1) set Sample description: Wooden toy Date sample received: July 20, 2018

Date information received: November 09, 2018

#### **Client Information:**

One (1) set of submitted sample said to be PERCUSSION-TAMBOURINE

PERCUSSION-TAMBOURINE Item Name:

Item Number: 6429



BKKH18009529

#### Test conducted:

As requested by the applicant, for details please refer to attached page(s)

To be continued

For and on behalf of:

Intertek Testing Services (Thailand) Ltd.,

**Hardlines Laboratory** 

Ladtaka Wongwiboonporn

Laboratory Manager

**Hardlines Department** 

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**Tested samples** Standard Result Submitted sample U.S. ASTM F963-17 for Physical and mechanical tests Pass U.S. ASTM F963-17 for clause 4.5 Pass Sound producing toys U.S. ASTM F963-17 for Flammability test of materials **Pass** other than textile materials U.S. ASTM F963-16 for Heavy elements Test Pass Standard - U.S. CFR title 16 Pass (CPSC regulations) Part 1303 total Lead content Standard **Pass** U.S. Consumer product safety improvement Act 2008(H.R. 4040) Title I, Section 101 For total lead content in surface coating Pass U.S. Consumer product safety improvement Act 2008(H.R. 4040) Title I, Section 101 For total lead content in non-surface coating material (substrate) **Pass** US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

Phthalate Content Requirement base on the California Proposition 65

Illinois Lead Poisoning Prevention Pass Act 410 ILCS 45 section 6 (public act 095-1019)

As requested by the applicant, the test was conducted only on components listed in this report.

Other components were not tested.

\*

Pass

Remark:



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### Remark:

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>	Report No.	<u>Date</u>
ASTM F963-16: Heavy metal		
BROWN COATING ON WOOD	BKKH18008771	Jul 12, 2018
BLUE SAWDUST	BKKH18001625	Feb 12, 2018
Lead in surface coating		
BROWN COATING ON WOOD	BKKH18008771	Jul 12, 2018
Lead in substrate		
BLUE SAWDUST	BKKH18001625	Feb 12, 2018
Metal Sheet	BKKH18013588	Oct 08, 2018
Phthalate content		
BROWN COATING ON WOOD	BKKH18008771	Jul 12, 2018
BLUE SAWDUST	BKKH18001625	Feb 12, 2018



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### Test conducted:

1 Physical And Mechanical Tests <sup>1</sup>

Test Standard: ASTM Standard Consumer Safety Specification for Toy Safety F963-16.

Age group for testing: For age over 18 months.

The submitted samples were undergone the use and abuse tests in accordance with the Federal

Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations: -

 Test
 FHSA
 Parameter

 Drop test
 Section 1500.52(b)
 4 x 3.0 ft

 Torque test
 Section 1500.53(e)
 4 in-lbf

 Tension test
 Section 1500.53(f)
 15 lbf

 Compression test
 Section 1500.53(g)
 30 lbf

<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
4.1	Material quality	Р
4.5	Sound-producing toys	P*1
4.6.1	Toys intended for children under 36 months (small objects)	Р
4.6.2	Mouth-actuated toys	NA
4.6.3	Toys and games for 36 months to 72 months (small part warning)	NA
4.7	Accessible edges	Р
4.8	Projections	NA
4.9	Accessible points	Р
4.10	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Plastic film	NA
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps and elastics	NA
4.15	Stability and over-load requirements	NA
4.16	Confined spaces	NA
4.17	Wheels, tires and axles	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA
4.22	Teethers and teething toys	NA



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### Test conducted:

<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
4.23	Rattles	NA
4.24	Squeeze toys	NA
4.25	Battery-operated toys	NA
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag-type toys	NA
4.28	Stroller and carriage toys	NA
4.29	Art materials	NA
4.30	Toy gun marking	NA
4.31	Balloons	NA
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	NA
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-shaped objects	NA
4.37	Yoyo elastic tether toys	NA
4.38	Magnets	NA
4.39	Jaw entrapment in handles and steering wheels	NA
4.40	Expanding materials	NA
4.41	Toy chests	NA
5	Labelling requirement	NA
6	Instructional literature	NA
7	Producer's markings	Yes
	<ul><li>- name of producer (toy and package)</li><li>- address (package)</li></ul>	Yes

Remark : P = PassNA = Not applicable

▲ = Tested items are not included in the TISI Accreditation

The submitted samples were undergone the tests in accordance with clause 8.5 through clause 8.17 and 8.19 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

Testing period: July 20, 2018 to August 27, 2018

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Number: BKKH18009529

Test conducted:

## \*1 Sound producing toys test

Test Standard: ASTM Standard Consumer Safety Specification on Toy Safety F963-17, clause 4.5.

Clause	Test item	Assessment
4.5.1.1	A-weighted equivalent sound pressure level, L <sub>Aeq</sub> , produced by	NA
	close to the ear toys.	
	Maximum A-weighted sound pressure level, L <sub>AFmax</sub> , produced	
4.5.1.2	by the translational motion of floor or table top toys where	NA
	the motion is imparted on the toy by the child.	
4.5.1.3	A-weighted equivalent sound pressure level, LAeq, produced	NA
4.5.1.5	by all other toys.	NA
4 5 1 4	C-weighted peak sound pressure level, L <sub>Cpeak</sub> , produced by	NA
4.5.1.4	close to the ear toys.	NA
	C-weighted peak sound pressure level, L <sub>Cpeak</sub> , produced by any	_
4.5.1.5	type of toy excluding toys using explosive action.	Р
	C-weighted peak sound pressure level, L <sub>Cpeak</sub> , produced by a	
4.5.1.6	toy using percussion caps or other explosive action.	NA

Remark: P = Pass NA = Not applicable

Peak sound pressure level (LCpeak) Tested component Limit (db) Tambourine 115

Testing period: July 20, 2018 to August 27, 2018



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Test conducted:

Flammability Test 2

Test Standard: Clause 4.2 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-16.

Did not ignite Results:

▲ = Tested items are not included in the TISI Accreditation

Testing period: July 20, 2018 to August 27, 2018



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Test conducted:

### 3 Heavy Elements Analysis

As per clause 4.3.5.1(2) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-16, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

		<u>Result</u> mg/kg	<u>LOD</u> mg/kg	LOQ mg/kg	Limit mg/kg
	(1)				
Sol. Barium (Ba)	572		1	5	1000
Sol. Lead (Pb)	ND		1	5	90
Sol. Cadmium (Cd)	ND		1	5	75
Sol. Antimony (Sb)	ND		2	5	60
Sol. Selenium (Se)	ND		1	5	500
Sol. Chromium (Cr)	ND		2	5	60
Sol. Mercury (Hg)	ND		1	5	60
Sol. Arsenic (As)	ND		2	5	25

Remark: Sol. = Soluble

mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

Tested components:

(1) = BROWN COATING ON WOOD Refer BKKH18008771

Note: The results of soluble toxic elements were adjusted by subtracting the analytical correction factor.





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The results relate only to the item tested.

Test conducted:

## **Heavy Elements Analysis**

As per clause 4.3.5.2(2)(b) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-16, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

		<u>Result</u>	<u>LOD</u>	<u>LOQ</u>	Limit mg/kg
		mg/kg	mg/kg	mg/kg	
	(2)				
Sol. Barium (Ba)	<5		1	5	1000
Sol. Lead (Pb)	ND		1	5	90
Sol. Cadmium (Cd)	ND		1	5	75
Sol. Antimony (Sb)	ND		2	5	60
Sol. Selenium (Se)	ND		1	5	500
Sol. Chromium (Cr)	ND		2	5	60
Sol. Mercury (Hg)	ND		1	5	60
Sol. Arsenic (As)	ND		2	5	25

Remark: Sol. = Soluble

mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million LOD = Limit of Detection LOQ = Limit of Quantitation

ND = Not detected (Less than LOD) <= Less than

Tested components:

(2) = BLUE SAWDUST Refer BKKH18001625

Note: The results of soluble toxic elements were adjusted by subtracting the analytical correction factor.





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The results relate only to the item tested

Test conducted:

#### Total Lead (Pb) Content

As per clause 4.3.5.1(1) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-16, test method CPSC-CH-E1003-09.1:2011 was used and total Lead content was determined by ICP-OES analysis.

(I) Surface coating

Remark: mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million

LOD = Limit of Detection LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

Tested components:

(1) = BROWN COATING ON WOOD Refer BKKH18008771

### Total Lead (Pb) Content

As per clause 4.3.5.2(2)(a) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-16, test method CPSC-CH-E1001-08.3:2012, CPSC-CH-E1002-08.3:2012 were used and total Lead content was determined by ICP-OES analysis.

(II) Non-surface coating

Tostad Component	<u>Result</u>	LOD	LOQ	<u>Limit</u>
Tested Component	mg/kg	(mg/kg)	(mg/kg)	(mg/kg)
(2)	<13	1	13	100
(3)	ND	2	13	100

Remark: mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million

LOD = Limit of Detection LOQ = Limit of Quantitation

ND = Not detected (Less than LOD) <= Less than

Tested components:

(2) = BLUE SAWDUST Refer BKKH18001625 (3) = Metal Sheet Refer BKKH18013588

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Test conducted:

4 Total Lead (Pb) content <sup>▲</sup>

As per U.S. Code of Federal Regulations title 16 Part 1303. Acid digestion method was used and total Lead content was determined by Inductively Couple Plasma Optical Emission Spectrometry. 2

 Tested component
 Result %
 LOD %
 LOQ %
 Limit %

 (1)
 ND
 0.0002
 0.0013
 0.0090

Remark: % = percentage

LOD = Limit of Detection LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

▲ = Tested items are not included in the TISI Accreditation

Tested components:

(1) = BROWN COATING ON WOOD Refer BKKH18008771

5 Total lead (Pb) content in surface coating

As per U.S. Consumer Product Safety Improvement Act of 2008 (H.R. 4040), Title I, Section 101 for children's products containing Lead, CPSC-CH-E1003-09.1:2011 method was used and total Lead content was determined by Inductively Couple Plasma Optical Emission Spectrometry.

Tested component	<u>Result</u>	<u>LOD</u>	LOQ	<u>Limit mg/kg</u>
	mg/kg	mg/kg	mg/kg	
(1)	ND	2	13	90

Remark: mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million

LOD = Limit of Detection LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

Tested components:

(1) = BROWN COATING ON WOOD Refer BKKH18008771

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Test conducted:

6 <u>Total Lead (Pb) Content in Substrate Material- Children's Metal Product</u>

As per U.S. Consumer Product Safety Improvement Act of 2008 (H.R. 4040), Title I, Section 101 for children's products containing Lead, CPSC-CH-E1001-08.3:2012 method was used and total Lead content was determined by Inductively Couple Plasma Optical Emission Spectrometry.

Tested component	<u>Result</u>	<u>LOD</u>	<u>LOQ</u>	Limit mg/kg
	mg/kg	mg/kg	mg/kg	
(1)	ND	2	13	100

Remark: mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million

LOD = Limit of Detection

LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

Tested components:

(1) = Metal Sheet Refer BKKH18013588

Total lead (Pb) content in substrate material- non-metal children's product

As per U.S. Consumer product safety improvement Act of 2008 (H.R. 4040), Title I, Section 101 for children's products containing lead, CPSC-CH-E1002-08.3:2012 method was used and total lead content was determined by Inductively Couple Plasma Optical Emission Spectrometry.

Tested component	Result	LOD	LOQ	Limit mg/kg
	mg/kg	mg/kg	mg/kg	
(2)	<13	1	13	100

Remark: mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million

LOD = Limit of Detection LOQ = Limit of Quantitation

ND = Not detected (Less than LOD) <= Less than

Tested components:

(2) = BLUE SAWDUST Refer BKKH18001625





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Test conducted:

### 7 Phthalate content

As per CPSC-CH-C1001-09.3:2010 and U.S. Consumer Product Safety Improvement Act 2008 (H.R. 4040), Title I, Section 108 requirement on Phthalates, solvent extraction method was used and Phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis. 2

			<u>Result</u>	<u>LOD</u>	<u>LOQ</u>	(16CFR1307)	<u>NPR</u>
			<u>(%, w/w)</u>	(%, w/w)	(%, w/w)	<u>Limit (%, w/w)</u>	<u>(%, w/w)</u>
	(1)	(2)					
Dibutyl Phthalate (DBP)	ND	ND		0.0015	0.0030	0.1	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND		0.0015	0.0030	0.1	0.1
Benzyl butyl Phthalate (BBP)	ND	ND		0.0015	0.0030	0.1	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND		0.0015	0.0090	0.1	0.1
Di-n-octyl Phthalate (DNOP)	ND	ND		0.0015	0.0030		
Di-iso-decyl Phthalate (DIDP)	ND	ND		0.0015	0.0090		
Di-isobutyl phthalate (DIBP) ▲	ND	ND		0.0015	0.0090	0.1	0.1
Di-n-pentyl phthalate (DPENP) ▲	ND	ND		0.0015	0.0090	0.1	0.1
Di-n-hexyl phthalate (DHEXP) <sup>▲</sup>	ND	ND		0.0015	0.0090	0.1	0.1
Di-cyclohexyl phthalate (DCHP) ▲	ND	ND		0.0015	0.0090	0.1	0.1
Diisooctyl phthalate (DIOP) <sup>▲</sup>	ND	ND		0.0015	0.0090		

Remark: The above limit was quoted according to US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates except the Phthalate no.5-6,11 was conducted as per applicant requested only.

NPR = Notice of proposed rulemaking %, w/w = Percentage weight by weight

LOD = Limit of Detection LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

Tested items are not included in the TISI Accreditation

### Tested components:

(1) =	BLUE SAWDUST	Refer	BKKH18001625
(2) =	BROWN COATING ON WOOD	Refer	BKKH18008771





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Test conducted:

## 8 Phthalate content test A

By solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

			<u>Result</u>	<u>LOD</u>	<u>LOQ</u>	<u>Limit</u>
			<u>(%, w/w)</u>	(%, w/w)	(%, w/w)	(%, w/w)
	(1)	(2)				
Dibutyl Phthalate (DBP)	ND	ND		0.0015	0.0030	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND		0.0015	0.0030	0.1
Benzyl butyl Phthalate (BBP)	ND	ND		0.0015	0.0030	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND		0.0015	0.0090	0.1
Dioctyl Phthalate (DNOP)	ND	ND		0.0015	0.0030	0.1
Di-iso-decyl Phthalate (DIDP)	ND	ND		0.0015	0.0090	0.1
Di-n-hexyl Phthalate (DnHP)	ND	ND		0.0015	0.0030	0.1

Remark: %, w/w = Percentage weight by weight

LOD = Limit of Detection LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

▲ = Tested items are not included in the TISI Accreditation

Note: The above limit was quoted according to the California Proposition 65

Tested components:

(1) = BLUE SAWDUST Refer BKKH18001625 (2) = BROWN COATING ON WOOD Refer BKKH18008771

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Test conducted:

# 9 Total Lead (Pb) Content ▲

As per Illinois Lead poisoning prevention act 410 ILCS 45 section 6 (public act 095-1019), acid digestion method was used and total Lead content was determined by Inductively Couple Plasma Optical Emission Spectrometry.

#### I Surface coating material

Tested component	<u>Result</u>	<u>LOD</u> <u>LOQ</u>	<u>Limit</u>
	mg/kg	mg/kg mg/kg	mg/kg
(1)	ND	2 13	90

#### Remark:

mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million

LOD = Limit of Detection

LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

### Requirement:

■ Tested items are not included in the TISI Accreditation According to Illinois Lead poisoning prevention act 410 ILCS 45 section 6 (public act 095-019), appropriate warning statement is required when the Lead content of the submitted sample is more than 40 ppm but less than 90 ppm for surface coatings and less than 100 ppm for substrates by total weight or a lower standard for Lead content as may be established by federal or state law or regulation.

#### Tested components:

(1) = BROWN COATING ON WOOD Refer BKKH18008771

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Test conducted:

П Non-surface coating material (substrate)

Tested component	<u>Result</u>	<u>LOD</u> <u>LOQ</u>	<u>Limit</u>
	mg/kg	mg/kg mg/kg	mg/kg
(2)	<13	1 13	100
(3)	ND	2 13	100

Remark: < = Less than

Milligram per kilogram based on weight of sample; = ppm = Parts per million

LOD = Limit of Detection LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

Requirement: According to Illinois Lead poisoning prevention act 410 ILCS 45 section 6

> (public act 095-019), appropriate warning statement is required when the Lead content of the submitted sample is more than 40 ppm but less than 90 ppm for surface coatings and less than 100 ppm for substrates by total weight or a lower standard for Lead content as may be established by federal

or state law or regulation.

Tested components:

**BLUE SAWDUST** Refer BKKH18001625 (2) (3) **Metal Sheet** Refer BKKH18013588

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

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