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The results relate only to the item tested



Applicant: PLAN CREATIONS CO., LTD.

8 MOO 8, TRANG-PALIAN RD.,

YANTAKAO, TRANG, THAILAND 92140 ATTN: K.NARONG, K.SUPAPORN Issued Date: Jan 07, 2020
This report supersedes
The previous report
Date Jan 03, 2020

Sample description:

Quantity of sample: One (1) set Sample description: Wooden toy

Date sample received:

Date information received:

Date sample resubmitted:

November 19, 2019

January 07, 2020

December 13, 2019

Client Information:

One (1) set of submitted sample said to be PIRATE SHIP

Item Name:PIRATE SHIPItem Number:6114



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

adtales W

Ladtaka Wongwiboonporn Laboratory Manager

Hardlines Department





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Number: BKKH19015735S1

Pass

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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 Flammability test of materials Pass other than textile materials U.S. ASTM F963-17 **Pass** for Heavy elements Test Standard - U.S. CFR title 16 **Pass** (CPSC regulations) Part 1303 total Lead content

Standard

U.S. Consumer product safety improvement Act 2008(H.R. 4040) Title I, Section 101 For total lead content in surface coating

U.S. Consumer product safety improvement Pass Act 2008(H.R. 4040) Title I, Section 101 For total lead content in non-surface coating material (substrate)

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.



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.

Components	Report No.	<u>Date</u>
ASTM F963-17: Heavy metal		
BLUE COATING ON WOOD (No.1)	BKKH19008028S1	Jul 18, 2019
YELLOW COATING ON WOOD	BKKH19009836	Aug 15, 2019
LACQUER COATING ON WOOD	BKKH19007792S1	Jul 15, 2019
RED COATING ON WOOD	BKKH19007790S1	Jul 15, 2019
BROWN COATING ON WOOD	BKKH19007791S1	Jul 15, 2019
BROWN COATING ON WOOD	BKKH19007792S1	Jul 15, 2019
DARK GRAY COATING ON WOOD	BKKH18016832	Dec 28, 2018
BLACK COATING ON WOOD	BKKH19007793S1	Jul 15, 2019
WHITE COATING ON WOOD	BKKH19007793S1	Jul 15, 2019
DARK BLUE COATING ON WOOD	BKKH19008029S1	Jul 18, 2019
ORANGE COATING ON WOOD	BKKH19008028S1	Jul 18, 2019
LIGHT YELLOW PLASTIC	BKKH19011695	Sep 13, 2019
RED FABRIC	BKKH18016417	Dec 20, 2018
BROWN FRIEZE	BKKH19009835	Aug 15, 2019
DARK BLUE FABRIC	BKKH19014472S1	Nov 13, 2019
WHITE PLASTIC JOINT	BKKH19011000	Aug 28, 2019
BLACK FABRIC	BKKH19010259	Aug 19, 2019
WHITE CORD	BKKH19008311S1	Jul 15, 2019
BLACK CORD	BKKH19013134	Oct 08, 2019
BLACK ELASTIC	BKKH19011101	Sep 02, 2019
Lead in surface coating		
BLUE COATING ON WOOD (No.1)	BKKH19008028S1	Jul 18, 2019
YELLOW COATING ON WOOD	BKKH19009836	Aug 15, 2019
LACQUER COATING ON WOOD	BKKH19007792S1	Jul 15, 2019
RED COATING ON WOOD	BKKH19007790S1	Jul 15, 2019
BROWN COATING ON WOOD	BKKH19007791S1	Jul 15, 2019
BROWN COATING ON WOOD	BKKH19007792S1	Jul 15, 2019
DARK GRAY COATING ON WOOD	BKKH18016832	Dec 28, 2018
BLACK COATING ON WOOD	BKKH19007793S1	Jul 15, 2019
WHITE COATING ON WOOD	BKKH19007793S1	Jul 15, 2019
DARK BLUE COATING ON WOOD	BKKH19008029S1	Jul 18, 2019
ORANGE COATING ON WOOD	BKKH19008028S1	Jul 18, 2019

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<u>Components</u>	Report No.	<u>Date</u>
Lead in substrate		
SCREW	BKKH18016420	Dec 17, 2018
LIGHT YELLOW PLASTIC	BKKH19011695	Sep 13, 2019
RED FABRIC	BKKH18016417	Dec 20, 2018
BROWN FRIEZE	BKKH19009835	Aug 15, 2019
DARK BLUE FABRIC	BKKH19014472S1	Nov 13, 2019
WHITE PLASTIC JOINT	BKKH19011000	Aug 28, 2019
BLACK FABRIC	BKKH19010259	Aug 19, 2019
WHITE CORD	BKKH19008311S1	Jul 15, 2019
BLACK CORD	BKKH19013134	Oct 08, 2019
BLACK ELASTIC	BKKH19011101	Sep 02, 2019
Phthalate content		
BLUE COATING ON WOOD (No.1)	BKKH19008028S1	Jul 18, 2019
YELLOW COATING ON WOOD	BKKH19009836	Aug 15, 2019
LACQUER COATING ON WOOD	BKKH19007792S1	Jul 15, 2019
RED COATING ON WOOD	BKKH19007790S1	Jul 15, 2019
BROWN COATING ON WOOD	BKKH19007791S1	Jul 15, 2019
BROWN COATING ON WOOD	BKKH19007792S1	Jul 15, 2019
DARK GRAY COATING ON WOOD	BKKH18016832	Dec 28, 2018
BLACK COATING ON WOOD	BKKH19007793S1	Jul 15, 2019
LIGHT YELLOW PLASTIC	BKKH19011695	Sep 13, 2019
WHITE PLASTIC JOINT	BKKH19011000	Aug 28, 2019
BLACK ELASTIC	BKKH19011101	Sep 02, 2019
WHITE COATING ON WOOD	BKKH19007793S1	Jul 15, 2019
DARK BLUE COATING ON WOOD	BKKH19008029S1	Jul 18, 2019
ORANGE COATING ON WOOD	BKKH19008028S1	Jul 18, 2019

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Test conducted:

1 Physical And Mechanical Tests

Test Standard: ASTM Standard Consumer Safety Specification for Toy Safety F963-17.

Age group for testing: For age over 3 years.

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 : -

TestFHSAParameterDrop testSection 1500.53(b)4 x 3.0 ftTorque testSection 1500.53(e)4 in-lbfTension testSection 1500.53(f)15 lbfCompression testSection 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	NA
4.6.1	Toys intended for children under 36 months (small objects)	NA
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	Р
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(4.20.1	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 (4.25.10, 4.25.11 ⁴)	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	P#
6	Instructional literature	Р
7	Producer's markings - name of producer (toy and package) - address (package)	Yes Yes

Remark: P = Pass NA = Not applicable

- ▲ = Tested items are not included in the TISI Accreditation
- # = No final packaging was submitted for testing.

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: November 19, 2019 to December 20, 2019

(N)



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Test conducted:

2 Flammability Test

Test Standard: Clause 4.2 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-17.

Results: Did not ignite

Testing period: November 19, 2019 to November 29, 2019





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The results relate only to the item tested

Test conducted:

3 Heavy Elements Analysis

As per clause 4.3.5.1(2) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

			Result			<u>LOD</u>	<u>LOQ</u>	<u>Limit mg/kg</u>
			mg/kg			mg/kg	mg/kg	
	(1)	(2)	(3)	(4)	(5)			
Sol. Barium (Ba)	ND	ND	ND	ND	ND	1	5	1000
Sol. Lead (Pb)	ND	ND	ND	ND	ND	1	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	1	5	75
Sol. Antimony (Sb)	ND	ND	ND	ND	ND	2	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	1	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	2	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	1	5	60
Sol. Arsenic (As)	ND	ND	ND	ND	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)

Tested components:

(1) =	BLUE COATING ON WOOD (No.1)		Refer	BKKH19008028S1
` '	` '			
(2) =	YELLOW COATING ON WOOD		Refer	BKKH19009836
(3) =	LACQUER COATING ON WOOD		Refer	BKKH19007792S1
(4) =	RED COATING ON WOOD		Refer	BKKH19007790S1
(5) =	BROWN COATING ON WOOD		Refer	BKKH19007791S1

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

(N)



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The results relate only to the item tested.

Test conducted:

Heavy Elements Analysis

As per clause 4.3.5.1(2) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

			Result			<u>LOD</u>	<u>LOQ</u>	Limit mg/kg
			mg/kg			mg/kg	mg/kg	
	(6)	(7)	(8)	(9)	(10)			
Sol. Barium (Ba)	40	286	ND	ND	ND	1	5	1000
Sol. Lead (Pb)	ND	ND	ND	ND	ND	1	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	1	5	75
Sol. Antimony (Sb)	ND ND	ND ND	ND	ND	ND	2	5	60
Sol. Selenium (Se)	ND ND	ND	ND	ND	ND	1	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	2	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	1	5	60
Sol. Arsenic (As)	ND	ND	ND	ND	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)

Tested components:

	·			
(6) =	BROWN COATING ON WOOD		Refer	BKKH19007792S1
(7) =	DARK GRAY COATING ON WOOD		Refer	BKKH18016832
= (8)	BLACK COATING ON WOOD		Refer	BKKH19007793S1
(9) =	WHITE COATING ON WOOD		Refer	BKKH19007793S1
(10) =	DARK BLUE COATING ON WOOD		Refer	BKKH19008029S1





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Test conducted:

Heavy Elements Analysis

As per clause 4.3.5.1(2) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, 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	
	(11)				
Sol. Barium (Ba)	ND		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)

Tested components:

(11) = ORANGE COATING ON WOOD Refer BKKH19008028S1





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Test conducted:

Heavy Elements Analysis

As per clause 4.3.5.2(2)(b) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

			Result			<u>LOD</u>	<u>LOQ</u>	Limit mg/kg
			mg/kg			mg/kg	mg/kg	
	(12)	(13)	(14)	(15)	(16)			
Sol. Barium (Ba)	ND	ND	ND	ND	ND	1	5	1000
Sol. Lead (Pb)	ND	ND	ND	ND	ND	1	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	ND	1	5	75
Sol. Antimony (Sb)	ND	5	ND	ND	ND	2	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	ND	1	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	ND	2	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	ND	1	5	60
Sol. Arsenic (As)	ND	ND	ND	ND	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)

Tested components:

(12) =	LIGHT YELLOW PLASTIC	Refer	BKKH19011695
(13) =	RED FABRIC	Refer	BKKH18016417
(14) =	BROWN FRIEZE	Refer	BKKH19009835
(15) =	DARK BLUE FABRIC	Refer	BKKH19014472S1
(16) =	WHITE PLASTIC JOINT	Refer	BKKH19011000





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Test conducted:

Heavy Elements Analysis

As per clause 4.3.5.2(2)(b) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

			Result		<u>LOD</u>	<u>LOQ</u>	Limit mg/kg
			mg/kg		mg/kg	mg/kg	
	(17)	(18)	(19)	(20)			
Sol. Barium (Ba)	ND	ND	ND	111	1	5	1000
Sol. Lead (Pb)	ND	ND	ND	ND	1	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	1	5	75
Sol. Antimony (Sb)	ND	<5	<5	ND	2	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	1	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	2	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	1	5	60
Sol. Arsenic (As)	ND	ND	ND	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) <= Less than

Tested components:

(17) =	BLACK FABRIC	Refer	BKKH19010259
(18) =	WHITE CORD	Refer	BKKH19008311S1
(19) =	BLACK CORD	Refer	BKKH19013134
(20) =	BLACK ELASTIC	Refer	BKKH19011101





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Test conducted:

Total Lead (Pb) Content

As per clause 4.3.5.1(1) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, test method CPSC-CH-E1003-09.1:2011 was used and total Lead content was determined by ICP-OES analysis.

(I) Surface coating

Tested Component	Result	<u>LOD</u>	<u>LOQ</u>	<u>Limit</u>
rested component	mg/kg	<u>(mg/kg)</u>	<u>(mg/kg)</u>	<u>(mg/kg)</u>
(1)	ND	2	13	90
(2)	ND	2	13	90
(3)	ND	2	13	90
(4)	ND	2	13	90
(5)	ND	2	13	90
(6)	ND	2	13	90
(7)	ND	2	13	90
(8)	ND	2	13	90
(9)	ND	2	13	90
(10)	<13	2	13	90
(11)	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) <= Less than

Tested components:

103104	omponents.		
(1) =	BLUE COATING ON WOOD (No.1)	Refer	BKKH19008028S1
(2) =	YELLOW COATING ON WOOD	Refer	BKKH19009836
(3) =	LACQUER COATING ON WOOD	Refer	BKKH19007792S1
(4) =	RED COATING ON WOOD	Refer	BKKH19007790S1
(5) =	BROWN COATING ON WOOD	Refer	BKKH19007791S1
(6) =	BROWN COATING ON WOOD	Refer	BKKH19007792S1
(7) =	DARK GRAY COATING ON WOOD	Refer	BKKH18016832
(8) =	BLACK COATING ON WOOD	Refer	BKKH19007793S1
(9) =	WHITE COATING ON WOOD	Refer	BKKH19007793S1
(10) =	DARK BLUE COATING ON WOOD	Refer	BKKH19008029S1
(11) =	ORANGE COATING ON WOOD	Refer	BKKH19008028S1





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Test conducted:

Total Lead (Pb) Content

As per clause 4.3.5.2(2)(a) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, 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

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

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:

(12) =	LIGHT YELLOW PLASTIC	Refer	BKKH19011695
(13) =	RED FABRIC	Refer	BKKH18016417
(14) =	BROWN FRIEZE	Refer	BKKH19009835
(15) =	DARK BLUE FABRIC	Refer	BKKH19014472S1
(16) =	WHITE PLASTIC JOINT	Refer	BKKH19011000
(17) =	BLACK FABRIC	Refer	BKKH19010259
(18) =	WHITE CORD	Refer	BKKH19008311S1
(19) =	BLACK CORD	Refer	BKKH19013134
(20) =	BLACK ELASTIC	Refer	BKKH19011101
(21) =	SCREW	Refer	BKKH18016420







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Test conducted:

Total Lead (Pb) content ▲ 4

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.

Tested component	Result %	LOD %	LOQ %	<u>Limit %</u>
(1)	ND	0.0002	0.0013	0.0090
(2)	ND	0.0002	0.0013	0.0090
(3)	ND	0.0002	0.0013	0.0090
(4)	ND	0.0002	0.0013	0.0090
(5)	ND	0.0002	0.0013	0.0090
(6)	ND	0.0002	0.0013	0.0090
(7)	ND	0.0002	0.0013	0.0090
(8)	ND	0.0002	0.0013	0.0090
(9)	ND	0.0002	0.0013	0.0090
(10)	< 0.0013	0.0002	0.0013	0.0090
(11)	ND	0.0002	0.0013	0.0090

Remark: percentage Less than < =

> LOD = Limit of Detection LOQ = Limit of Quantitation

Not detected (Less than LOD)

Tested items are not included in the TISI Accreditation

Tested components:

(1) =	BLUE COATING ON WOOD (No.1)	Refer	BKKH19008028S1
(2) =	YELLOW COATING ON WOOD	Refer	BKKH19009836
(3) =	LACQUER COATING ON WOOD	Refer	BKKH19007792S1
(4) =	RED COATING ON WOOD	Refer	BKKH19007790S1
(5) =	BROWN COATING ON WOOD	Refer	BKKH19007791S1
(6) =	BROWN COATING ON WOOD	Refer	BKKH19007792S1
(7) =	DARK GRAY COATING ON WOOD	Refer	BKKH18016832
= (8)	BLACK COATING ON WOOD	Refer	BKKH19007793S1
(9) =	WHITE COATING ON WOOD	Refer	BKKH19007793S1
(10) =	DARK BLUE COATING ON WOOD	Refer	BKKH19008029S1
(11) =	ORANGE COATING ON WOOD	Refer	BKKH19008028S1





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Test conducted:

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	Result	<u>LOD</u>	<u>LOQ</u>	<u>Limit mg/kg</u>
	<u>mg/kg</u>	<u>mg/kg</u>	mg/kg	
(1)	ND	2	13	90
(2)	ND	2	13	90
(3)	ND	2	13	90
(4)	ND	2	13	90
(5)	ND	2	13	90
(6)	ND	2	13	90
(7)	ND	2	13	90
(8)	ND	2	13	90
(9)	ND	2	13	90
(10)	<13	2	13	90
(11)	ND	2	13	90

Remark:	mq/kq =	Milligram per kilog	gram based on weigh	it of sample: = ppm	= Parts per million

LOD = Limit of Detection LOQ = Limit of Quantitation

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

Tested components:

(1) =	BLUE COATING ON WOOD (No.1)	Refer	BKKH19008028S1
(2) =	YELLOW COATING ON WOOD	Refer	BKKH19009836
(3) =	LACQUER COATING ON WOOD	Refer	BKKH19007792S1
(4) =	RED COATING ON WOOD	Refer	BKKH19007790S1
(5) =	BROWN COATING ON WOOD	Refer	BKKH19007791S1
(6) =	BROWN COATING ON WOOD	Refer	BKKH19007792S1
(7) =	DARK GRAY COATING ON WOOD	Refer	BKKH18016832
(8) =	BLACK COATING ON WOOD	Refer	BKKH19007793S1
(9) =	WHITE COATING ON WOOD	Refer	BKKH19007793S1
(10) =	DARK BLUE COATING ON WOOD	Refer	BKKH19008029S1
(11) =	ORANGE COATING ON WOOD	Refer	BKKH19008028S1





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The results relate only to the item tested.

Number: BKKH19015735S1

Test conducted:

Total Lead (Pb) Content in Substrate Material- Children's Metal 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-E1001-08.3:2012 method was used and total Lead content was determined by Inductively Couple Plasma Optical Emission Spectrometry.

Tested component	Result	LOD	LOQ	<u>Limit mg/kg</u>
	<u>mg/kg</u>	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 Quantitation

ND = Not detected (Less than LOD)

Tested components:

(1) = SCREW Refer BKKH18016420





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The results relate only to the item tested.

Test conducted:

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	<u>Limit mg/kg</u>
	<u>mg/kg</u>	mg/kg	mg/kg	
(1)	ND	1	13	100
(2)	ND	1	13	100
(3)	ND	1	13	100
(4)	ND	1	13	100
(5)	ND	1	13	100
(6)	ND	1	13	100
(7)	ND	1	13	100
(8)	ND	1	13	100
(9)	ND	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)

Tested components:

(1) =	LIGHT YELLOW PLASTIC		Refer	BKKH19011695
(2) =	RED FABRIC		Refer	BKKH18016417
(3) =	BROWN FRIEZE		Refer	BKKH19009835
(4) =	DARK BLUE FABRIC		Refer	BKKH19014472S1
(5) =	WHITE PLASTIC JOINT	/1	Refer	BKKH19011000
(6) =	BLACK FABRIC		Refer	BKKH19010259
(7) =	WHITE CORD		Refer	BKKH19008311S1
(8) =	BLACK CORD		Refer	BKKH19013134
(9) =	BLACK ELASTIC		Refer	BKKH19011101





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Number: BKKH19015735S1

The results relate only to the item tested.

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.

			Result			<u>LOD</u>	<u>LOQ</u>	(16CFR1307)	<u>NPR</u>
			<u>(%, w/w</u>)		(%, w/w)	(%, w/w)	Limit (%, w/w)	(%, w/w)
	(1)	(2)	(3)	(4)	(5)				
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	ND	ND	ND	0.0015	0.0090	0.1	0.1
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	ND	ND	0.0015	0.0030		
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	ND	0.0015	0.0090		
Di-isobutyl phthalate (DIBP) ▲	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-n-pentyl phthalate (DPENP) ▲	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-n-hexyl phthalate (DHEXP) ▲	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-cyclohexyl phthalate (DCHP) ▲	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Diisooctyl phthalate (DIOP) ▲	ND	ND	ND	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 th

= Not detected (Less than LOD)

▲ = Tested items are not included in the TISI Accreditation

Tested components:

(1) =	BLUE COATING ON WOOD (No.1)	Refer	BKKH19008028S1
(2) =	YELLOW COATING ON WOOD	Refer	BKKH19009836
(3) =	LACQUER COATING ON WOOD	Refer	BKKH19007792S1
(4) =	RED COATING ON WOOD	Refer	BKKH19007790S1
(5) =	BROWN COATING ON WOOD	Refer	BKKH19007791S1

(N)



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The results relate only to the item tested.

Test conducted:

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.

			Result			<u>LOD</u>	<u>LOQ</u>	(16CFR1307)	<u>NPR</u>
			<u>(%, w/w</u>	<u>)</u>		(%, w/w)	(%, w/w)	Limit (%, w/w)	(%, w/w)
	(6)	(7)	(8)	(9)	(10)				
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	ND	ND	ND	0.0015	0.0090	0.1	0.1
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	ND	ND	0.0015	0.0030		
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	ND	0.0015	0.0090		
Di-isobutyl phthalate (DIBP) ▲	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-n-pentyl phthalate (DPENP) ▲	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-n-hexyl phthalate (DHEXP) ▲	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-cyclohexyl phthalate (DCHP) ▲	ND	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Diisooctyl phthalate (DIOP) ▲	ND	ND	ND	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:

(6) =	BROWN COATING ON WOOD	Refer	BKKH19007792S1
(7) =	DARK GRAY COATING ON WOOD	Refer	BKKH18016832
(8) =	BLACK COATING ON WOOD	Refer	BKKH19007793S1
(9) =	LIGHT YELLOW PLASTIC	Refer	BKKH19011695
(10) =	WHITE PLASTIC JOINT	Refer	BKKH19011000





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The results relate only to the item tested

Test conducted:

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.

			Result		<u>LOD</u>	<u>LOQ</u>	(16CFR1307)	<u>NPR</u>
			<u>(%, w/w)</u>		(%, w/w)	(%, w/w)	Limit (%, w/w)	(%, w/w)
	(11)	(12)	(13)	(14)				
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	ND	ND	0.0015	0.0090	0.1	0.1
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	ND	0.0015	0.0030		
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	0.0015	0.0090		
Di-isobutyl phthalate (DIBP) ▲	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-n-pentyl phthalate (DPENP) ▲	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-n-hexyl phthalate (DHEXP) ▲	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-cyclohexyl phthalate (DCHP) ▲	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Diisooctyl phthalate (DIOP) ▲	ND	ND	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

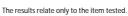
Tested components:

(11) =	BLACK ELASTIC	Refer	BKKH19011101
(12) =	WHITE COATING ON WOOD	Refer	BKKH19007793S1
(13) =	DARK BLUE COATING ON WOOD	Refer	BKKH19008029S1
(14) =	ORANGE COATING ON WOOD	Refer	BKKH19008028S1





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Test conducted:

8 Phthalate content test A

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

			Result			<u>LOD</u>	<u>LOQ</u>	<u>Limit</u>
			(%, w/w)			(%, w/w)	(%, w/w)	(%, w/w)
	(1)	(2)	(3)	(4)	(5)			
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	ND	0.0015	0.0030	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	0.0015	0.0030	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	ND	ND	ND	0.0015	0.0030	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	ND	ND	ND	0.0015	0.0090	0.1
Dioctyl Phthalate (DNOP)	ND	ND	ND	ND	ND	0.0015	0.0030	0.1
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	ND	0.0015	0.0090	0.1
Di-n-hexyl Phthalate (DnHP)	ND	ND	ND	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 COATING ON WOOD (No.1)		Refer	BKKH19008028S1
(2) =	YELLOW COATING ON WOOD		Refer	BKKH19009836
(3) =	LACQUER COATING ON WOOD		Refer	BKKH19007792S1
(4) =	RED COATING ON WOOD		Refer	BKKH19007790S1
(5) =	BROWN COATING ON WOOD		Refer	BKKH19007791S1





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Number: BKKH19015735S1

Test conducted:

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>
			(%, w/w)			(%, w/w)	(%, w/w)	(%, w/w)
	(6)	(7)	(8)	(9)	(10)			
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	ND	0.0015	0.0030	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	ND	0.0015	0.0030	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	ND	ND	ND	0.0015	0.0030	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	ND	ND	ND	0.0015	0.0090	0.1
Dioctyl Phthalate (DNOP)	ND	ND	ND	ND	ND	0.0015	0.0030	0.1
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	ND	0.0015	0.0090	0.1
Di-n-hexyl Phthalate (DnHP)	ND	ND	ND	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:

(6) =	BROWN COATING ON WOOD	Refer	BKKH19007792S1
(7) =	DARK GRAY COATING ON WOOD	Refer	BKKH18016832
= (8)	BLACK COATING ON WOOD	Refer	BKKH19007793S1
(9) =	LIGHT YELLOW PLASTIC	Refer	BKKH19011695
(10) =	WHITE PLASTIC JOINT	Refer	BKKH19011000





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Number: BKKH19015735S1

Test conducted:

Phthalate content test A

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

			Result		<u>LOD LOQ Limit</u>
			(%, w/w)		(%, w/w) (%, w/w) (%, w/w)
	(11)	(12)	(13)	(14)	
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	0.0015 0.0030 0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	0.0015 0.0030 0.1
Benzyl butyl Phthalate (BBP)	ND	ND	ND	ND	0.0015 0.0030 0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	ND	ND	0.0015 0.0090 0.1
Dioctyl Phthalate (DNOP)	ND	ND	ND	ND	0.0015 0.0030 0.1
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	0.0015 0.0090 0.1
Di-n-hexyl Phthalate (DnHP)	ND	ND	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:

(11) =	BLACK ELASTIC		ļ	Refer	BKKH19011101
(12) =	WHITE COATING ON WOOD		ļ	Refer	BKKH19007793S1
(13) =	DARK BLUE COATING ON WOOD		ļ	Refer	BKKH19008029S1
(14) =	ORANGE COATING ON WOOD			Refer	BKKH19008028S1





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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 <u>Surface coating material</u>

Tested component	<u>Result</u>	<u>LOD</u>	LOQ	<u>Limit</u>
	<u>mg/kg</u>	<u>mg/kg</u>	mg/kg	<u>mg/kg</u>
(1)	ND	2	13	90
(2)	ND	2	13	90
(3)	ND	2	13	90
(4)	ND	2	13	90
(5)	ND	2	13	90
(6)	ND	2	13	90
(7)	ND	2	13	90
(8)	ND	2	13	90
(9)	ND	2	13	90
(10)	<13	2	13	90
(11)	ND	2	13	90

Remark: < = Less than

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 items are not included in the TISI Accreditation

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.

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Test conducted:

Tested components:

(1)	=	BLUE COATING ON WOOD (No.1)	Refer	BKKH19008028S1
(2)	=	YELLOW COATING ON WOOD	Refer	BKKH19009836
(3)	=	LACQUER COATING ON WOOD	Refer	BKKH19007792S1
(4)	=	RED COATING ON WOOD	Refer	BKKH19007790S1
(5)	=	BROWN COATING ON WOOD	Refer	BKKH19007791S1
(6)	=	BROWN COATING ON WOOD	Refer	BKKH19007792S1
(7)	=	DARK GRAY COATING ON WOOD	Refer	BKKH18016832
(8)	=	BLACK COATING ON WOOD	Refer	BKKH19007793S1
(9)	=	WHITE COATING ON WOOD	Refer	BKKH19007793S1
(10)	=	DARK BLUE COATING ON WOOD	Refer	BKKH19008029S1
(11)	=	ORANGE COATING ON WOOD	Refer	BKKH19008028S1



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Test conducted:

II Non-surface coating material (substrate)

Tested component	<u>Result</u>	<u>LOD</u>	<u>LOQ</u>	<u>Limit</u>
	<u>mg/kg</u>	mg/kg	mg/kg	mg/kg
(12)	ND	1	13	100
(13)	ND	1	13	100
(14)	ND	1	13	100
(15)	ND	1	13	100
(16)	ND	1	13	100
(17)	ND	1	13	100
(18)	ND	1	13	100
(19)	ND	1	13	100
(20)	ND	1	13	100
(21)	ND	1	13	100

Remark: < = Less than

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: 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.

of state law of regulation.



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Number: BKKH19015735S1

Test conducted:

T	
Tested	components:

(12)	=	LIGHT YELLOW PLASTIC	Refer	BKKH19011695
(13)	=	RED FABRIC	Refer	BKKH18016417
(14)	=	BROWN FRIEZE	Refer	BKKH19009835
(15)	=	DARK BLUE FABRIC	Refer	BKKH19014472S1
(16)	=	WHITE PLASTIC JOINT	Refer	BKKH19011000
(17)	=	BLACK FABRIC	Refer	BKKH19010259
(18)	=	WHITE CORD	Refer	BKKH19008311S1
(19)	=	BLACK CORD	Refer	BKKH19013134
(20)	=	BLACK ELASTIC	Refer	BKKH19011101
(21)	=	SCREW	Refer	BKKH18016420

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

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