

# TEST REPORT

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The results relate only to the item tested.

Number: BKKH17002809

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

**Date:** Aug 07, 2017

### Sample description:

Quantity of sample:	One (1) set
Sample description:	Wooden toy
Date sample received:	March 01, 2017
Date information received:	August 02, 2017
Date sample resubmitted:	July 12, 2017

### Client Information:

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

Item Name:	PIRATE BOAT
Item Number:	5707



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### Test conducted:

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

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To be continued

Authorized by :  
For 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 sample	U.S. ASTM F963-16 for Physical and mechanical tests	Pass
	U.S. ASTM F963-16 for Flammability test of materials other than textile materials	Pass
	U.S. ASTM F963-11 and ASTM F963-16 for Heavy elements Test	Pass
	<u>Standard - U.S. CFR title 16</u> (CPSC regulations) Part 1303 total Lead content	Pass
	<u>Standard</u> 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
	U.S. Consumer product safety improvement Act 2008(H.R. 4040) Title I, Section 108 Requirement on phthalates	Pass
	Phthalate Content Requirement base on the California Proposition 65	Pass
	Illinois Lead Poisoning Prevention Act 410 ILCS 45 section 6 (public act 095-1019)	Pass

Remark: As requested by the applicant, the test was conducted only on components listed in this report. Other components were not tested.

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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>	<u>Report No.</u>	<u>Date</u>
<u>ASTM F963-11: Heavy metal</u>		
YELLOW COATING ON WOOD	BKKH16014215	Oct 04,2016
Black Coating On Wood	BKKH16016482	Nov 24,2016
Brown coating on wood	BKKH16017601	Dec 21,2016
DARK BROWN COATING ON WOOD	BKKH17003954	Apr 03,2017
BROWN COATING ON WOOD (8463)	BKKH17008463	Jul 14, 2017
YELLOW COATING ON WOOD (8950)	BKKH17008950	Jul 26, 2017
LACQUER COATING ON WOOD	BKKH17008950	Jul 26, 2017
RED COATING ON WOOD	BKKH17008954	Jul 26, 2017
<u>Lead in surface coating</u>		
YELLOW COATING ON WOOD	BKKH16014215	Oct 04,2016
Black Coating On Wood	BKKH16016482	Nov 24,2016
Brown coating on wood	BKKH16017601	Dec 21,2016
DARK BROWN COATING ON WOOD	BKKH17003954	Apr 03,2017
BROWN COATING ON WOOD (8463)	BKKH17008463	Jul 14, 2017
YELLOW COATING ON WOOD (8950)	BKKH17008950	Jul 26, 2017
LACQUER COATING ON WOOD	BKKH17008950	Jul 26, 2017
RED COATING ON WOOD	BKKH17008954	Jul 26, 2017
<u>Lead in substrate</u>		
ORANGE SAWDUST	BKKH16017878	Dec 28,2016
Solid Wood	BKKH17000142	Jan 10,2017
BLACK SAWDUST	BKKH17000628	Jan 20,2017
CREAM ELASTIC	BKKH17003195	Mar 13,2017
WHITE CANVAS	BKKH17003199	Mar 10,2017
<u>Phthalate content</u>		
YELLOW COATING ON WOOD	BKKH16014215	Oct 04,2016
Black Coating On Wood	BKKH16016482	Nov 24,2016
Brown coating on wood	BKKH16017601	Dec 21,2016
ORANGE SAWDUST	BKKH16017878	Dec 28,2016
BLACK SAWDUST	BKKH17000628	Jan 20,2017
CREAM ELASTIC	BKKH17003195	Mar 13,2017
DARK BROWN COATING ON WOOD	BKKH17003954	Apr 03,2017
BROWN COATING ON WOOD (8463)	BKKH17008463	Jul 14, 2017
YELLOW COATING ON WOOD (8950)	BKKH17008950	Jul 26, 2017
LACQUER COATING ON WOOD	BKKH17008950	Jul 26, 2017
RED COATING ON WOOD	BKKH17008954	Jul 26, 2017

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Test conducted:

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

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

Age group for testing : For age over 2 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 : -

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

Clause	Testing items	Assessment
4.1	Material quality	P
4.5	Sound-producing toys	NA
4.6.1	Toys intended for children under 36 months (small objects)	P
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	P
4.8	Projections	P
4.9	Accessible points	P
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:

Clause	Testing items	Assessment
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	P
5	Labelling requirement	P
6	Instructional literature	
7	Producer's markings - name of producer (package) - address (package)	Yes Yes

Remark : P = Pass NA = 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 : March 01, 2017 to July 14, 2017

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Test conducted:

2 Flammability Test<sup>▲</sup>

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

<u>Sample</u>	<u>Ignition point</u>	<u>Burn length</u> <u>(inch)</u>	<u>Time</u> <u>(sec)</u>	<u>Actual</u> <u>burn rate</u> <u>(inch/sec)</u>	<u>Rounded burn</u> <u>rate</u> <u>(inch/sec)</u>	<u>Limit</u> <u>(inch/sec)</u>
Sail	Bottom to top	0.3	27	0.01	-	0.10

The above result only showed the most severe burn rate of the samples and components.

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

Testing period : March 01, 2017 to March 07, 2017

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Number: BKKH17002809

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<sup>▲</sup>, 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>	<u>Limit mg/kg</u>
	(1)	(2)	<u>mg/kg</u>	(4)	(5)	<u>mg/kg</u>	<u>mg/kg</u>	
Sol. Barium (Ba)	<4	<4	304	180	264	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  
< = 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

Tested components:

(1) =	YELLOW COATING ON WOOD	Refer	BKKH16014215
(2) =	Black Coating On Wood	Refer	BKKH16016482
(3) =	Brown coating on wood	Refer	BKKH16017601
(4) =	DARK BROWN COATING ON WOOD	Refer	BKKH17003954
(5) =	BROWN COATING ON WOOD (8463)	Refer	BKKH17008463

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

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Number: BKKH17002809

Test conducted:

Heavy Elements Analysis

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

	(6)	(7)	Result mg/kg (8)	LOD mg/kg	LOQ mg/kg	Limit mg/kg
Sol. Barium (Ba)	ND	ND	ND	1	5	1000
Sol. Lead (Pb)	ND	ND	ND	1	5	90
Sol. Cadmium (Cd)	ND	ND	ND	1	5	75
Sol. Antimony (Sb)	ND	ND	ND	2	5	60
Sol. Selenium (Se)	ND	ND	ND	1	5	500
Sol. Chromium (Cr)	ND	ND	ND	2	5	60
Sol. Mercury (Hg)	ND	ND	ND	1	5	60
Sol. Arsenic (As)	ND	ND	ND	2	5	25

Remark: Sol. = Soluble  
< = 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)  
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Tested components:

(6) =	YELLOW COATING ON WOOD (8950)	Refer	BKKH17008950
(7) =	LACQUER COATING ON WOOD	Refer	BKKH17008950
(8) =	RED COATING ON WOOD	Refer	BKKH17008954

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

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Number: BKKH17002809

Test conducted:

Heavy Elements Analysis

As per clause 4.3.5.2(2)(b) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-11 and F963-16<sup>▲</sup>, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

	(9)	(10)	<u>Result</u> mg/kg (11)	(12)	(13)	<u>LOD</u> mg/kg	<u>LOQ</u> mg/kg	<u>Limit mg/kg</u>
Sol. Barium (Ba)	<4	ND	ND	52	<5	1	5	1000
Sol. Lead (Pb)	<4	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  
< = 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

Tested components:

(9) =	ORANGE SAWDUST	Refer	BKKH16017878
(10) =	Solid Wood	Refer	BKKH17000142
(11) =	BLACK SAWDUST	Refer	BKKH17000628
(12) =	CREAM ELASTIC	Refer	BKKH17003195
(13) =	WHITE CANVAS	Refer	BKKH17003199

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

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Test conducted:

**Total Lead (Pb) Content**<sup>▲</sup>

As per clause 4.3.5.2(2)(a) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-11 and 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

<u>Tested Component</u>	<u>Result</u> <u>mg/kg</u>	<u>LOD</u> <u>(mg/kg)</u>	<u>LOQ</u> <u>(mg/kg)</u>	<u>Limit</u> <u>(mg/kg)</u>
(9)	<13	1	13	100
(10)	ND	1	13	100
(11)	<13	1	13	100
(12)	ND	1	13	100
(13)	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)                                          < = Less than  
 ▲ = Tested items are not included in the TISI Accreditation

Tested components:

(9) =	ORANGE SAWDUST	Refer	BKKH16017878
(10) =	Solid Wood	Refer	BKKH17000142
(11) =	BLACK SAWDUST	Refer	BKKH17000628
(12) =	CREAM ELASTIC	Refer	BKKH17003195
(13) =	WHITE CANVAS	Refer	BKKH17003199

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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.

<u>Tested component</u>	<u>Result %</u>	<u>LOD %</u>	<u>LOQ %</u>	<u>Limit %</u>
(1)	<0.0013	0.0002	0.0013	0.009
(2)	ND	0.0002	0.0013	0.009
(3)	ND	0.0002	0.0013	0.009
(4)	ND	0.0002	0.0013	0.009
(5)	ND	0.0002	0.0013	0.009
(6)	ND	0.0002	0.0013	0.009
(7)	ND	0.0002	0.0013	0.009
(8)	ND	0.0002	0.0013	0.009

Remark:      % =   percentage                                  < =         Less than  
                   LOD =   Limit of Detection                                                  LOQ =        Limit of Quantitation  
                   ND =   Not detected (Less than LOD)                                                  < =         Less than  
                   ▲ =   Tested items are not included in the TISI Accreditation

Tested components:

(1) =	YELLOW COATING ON WOOD	Refer	BKKH16014215
(2) =	Black Coating On Wood	Refer	BKKH16016482
(3) =	Brown coating on wood	Refer	BKKH16017601
(4) =	DARK BROWN COATING ON WOOD	Refer	BKKH17003954
(5) =	BROWN COATING ON WOOD (8463)	Refer	BKKH17008463
(6) =	YELLOW COATING ON WOOD (8950)	Refer	BKKH17008950
(7) =	LACQUER COATING ON WOOD	Refer	BKKH17008950
(8) =	RED COATING ON WOOD	Refer	BKKH17008954

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Number: BKKH17002809

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 (%, w/w)					LOD (%, w/w)	LOQ (%, w/w)	Limit (%, w/w)	NPR (%, w/w)
	(1)	(2)	(3)	(4)	(5)				
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1	0.1
Diethyl hexyl Phthalate (DEHP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	ND	ND	ND	0.0015	0.009	0.1	0.1
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1	--
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	ND	0.0015	0.009	0.1	--
Di-isobutyl phthalate (DIBP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.009	--	0.1
Di-n-pentyl phthalate (DnPP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.009	--	0.1
Di-n-hexyl phthalate (DnHP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.009	--	0.1
Di-cyclohexyl phthalate (DCHP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.009	--	0.1
Diisooctyl phthalate (DIOP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.009	--	--

Remark : The above limit was quoted according to US Consumer Product Safety Improvement Act 2008 for prohibition on sale of certain products containing specified phthalates.

The Phthalate no.7-11 are not included in US Consumer Product Safety Improvement Act 2008 and 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)

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Tested components:

(1) =	YELLOW COATING ON WOOD	Refer	BKKH16014215
(2) =	Black Coating On Wood	Refer	BKKH16016482
(3) =	Brown coating on wood	Refer	BKKH16017601
(4) =	ORANGE SAWDUST	Refer	BKKH16017878
(5) =	BLACK SAWDUST	Refer	BKKH17000628

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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.

	(6)	(7)	Result (%, w/w)	(8)	(9)	(10)	LOD (%, w/w)	LOQ (%, w/w)	Limit (%, w/w)	NPR (%, w/w)
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	ND	ND	0.0015	0.003	0.1	0.1
Diethyl hexyl Phthalate (DEHP)	ND	ND	ND	ND	ND	ND	0.0015	0.003	0.1	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	ND	ND	ND	ND	0.0015	0.003	0.1	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	ND	ND	ND	ND	0.0015	0.009	0.1	0.1
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	ND	ND	ND	0.0015	0.003	0.1	--
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	ND	ND	0.0015	0.009	0.1	--
Di-isobutyl phthalate (DIBP) <sup>▲</sup>	ND	ND	ND	ND	ND	ND	0.0015	0.009	--	0.1
Di-n-pentyl phthalate (DnPP) <sup>▲</sup>	ND	ND	ND	ND	ND	ND	0.0015	0.009	--	0.1
Di-n-hexyl phthalate (DnHP) <sup>▲</sup>	ND	ND	ND	ND	ND	ND	0.0015	0.009	--	0.1
Di-cyclohexyl phthalate (DCHP) <sup>▲</sup>	ND	ND	ND	ND	ND	ND	0.0015	0.009	--	0.1
Diisooctyl phthalate (DIOP) <sup>▲</sup>	ND	ND	ND	ND	ND	ND	0.0015	0.009	--	--

Remark : The above limit was quoted according to US Consumer Product Safety Improvement Act 2008 for prohibition on sale of certain products containing specified phthalates.  
The Phthalate no.7-11 are not included in US Consumer Product Safety Improvement Act 2008 and 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) =	CREAM ELASTIC	Refer	BKKH17003195
(7) =	DARK BROWN COATING ON WOOD	Refer	BKKH17003954
(8) =	BROWN COATING ON WOOD (8463)	Refer	BKKH17008463
(9) =	YELLOW COATING ON WOOD (8950)	Refer	BKKH17008950
(10) =	LACQUER COATING ON WOOD	Refer	BKKH17008950

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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 (%, w/w)	LOD (%, w/w)	LOQ (%, w/w)	Limit (%, w/w)	NPR (%, w/w)
(11)					
Dibutyl Phthalate (DBP)	ND	0.0015	0.003	0.1	0.1
Diethyl hexyl Phthalate (DEHP)	ND	0.0015	0.003	0.1	0.1
Benzyl butyl Phthalate (BBP)	ND	0.0015	0.003	0.1	0.1
Di-iso-nonyl Phthalate (DINP)	ND	0.0015	0.009	0.1	0.1
Di-n-octyl Phthalate (DNOP)	ND	0.0015	0.003	0.1	--
Di-iso-decyl Phthalate (DIDP)	ND	0.0015	0.009	0.1	--
Di-isobutyl phthalate (DIBP) <sup>▲</sup>	ND	0.0015	0.009	--	0.1
Di-n-pentyl phthalate (DnPP) <sup>▲</sup>	ND	0.0015	0.009	--	0.1
Di-n-hexyl phthalate (DnHP) <sup>▲</sup>	ND	0.0015	0.009	--	0.1
Di-cyclohexyl phthalate (DCHP) <sup>▲</sup>	ND	0.0015	0.009	--	0.1
Diisooctyl phthalate (DIOP) <sup>▲</sup>	ND	0.0015	0.009	--	--

Remark : The above limit was quoted according to US Consumer Product Safety Improvement Act 2008 for prohibition on sale of certain products containing specified phthalates.  
The Phthalate no.7-11 are not included in US Consumer Product Safety Improvement Act 2008 and was conducted as per applicant requested only.

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- %, 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) = RED COATING ON WOOD Refer BKKH17008954

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**TEST REPORT**

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

Number: BKKH17002809

Test conducted:

8 Phthalate content test<sup>▲</sup>

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

	Result					LOD (%, w/w)	LOQ (%, w/w)	Limit (%, w/w)
	(1)	(2)	(3)	(4)	(5)			
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1
Diethyl hexyl Phthalate (DEHP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	ND	ND	ND	0.0015	0.009	0.1
Dioctyl Phthalate (DNOP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	ND	0.0015	0.009	0.1
Di-n-hexyl Phthalate (DnHP)	ND	ND	ND	ND	ND	0.0015	0.003	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) =	YELLOW COATING ON WOOD	Refer	BKKH16014215
(2) =	Black Coating On Wood	Refer	BKKH16016482
(3) =	Brown coating on wood	Refer	BKKH16017601
(4) =	ORANGE SAWDUST	Refer	BKKH16017878
(5) =	BLACK SAWDUST	Refer	BKKH17000628

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**TEST REPORT**

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Number: BKKH17002809

Test conducted:

Phthalate content test<sup>▲</sup>

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

	Result					LOD	LOQ	Limit
	(6)	(7)	(8)	(9)	(10)	(%, w/w)	(%, w/w)	(%, w/w)
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1
Diethyl hexyl Phthalate (DEHP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	ND	ND	ND	0.0015	0.009	0.1
Dioctyl Phthalate (DNOP)	ND	ND	ND	ND	ND	0.0015	0.003	0.1
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	ND	0.0015	0.009	0.1
Di-n-hexyl Phthalate (DnHP)	ND	ND	ND	ND	ND	0.0015	0.003	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) =	CREAM ELASTIC	Refer	BKKH17003195
(7) =	DARK BROWN COATING ON WOOD	Refer	BKKH17003954
(8) =	BROWN COATING ON WOOD (8463)	Refer	BKKH17008463
(9) =	YELLOW COATING ON WOOD (8950)	Refer	BKKH17008950
(10) =	LACQUER COATING ON WOOD	Refer	BKKH17008950

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Number: BKKH17002809

Test conducted:

Phthalate content test<sup>▲</sup>

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

	Result (%, w/w)	LOD (%, w/w)	LOQ (%, w/w)	Limit (%, w/w)
(11)				
Dibutyl Phthalate (DBP)	ND	0.0015	0.003	0.1
Diethyl hexyl Phthalate (DEHP)	ND	0.0015	0.003	0.1
Benzyl butyl Phthalate (BBP)	ND	0.0015	0.003	0.1
Di-iso-nonyl Phthalate (DINP)	ND	0.0015	0.009	0.1
Di-octyl Phthalate (DNOP)	ND	0.0015	0.003	0.1
Di-iso-decyl Phthalate (DIDP)	ND	0.0015	0.009	0.1
Di-n-hexyl Phthalate (DnHP)	ND	0.0015	0.003	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) = RED COATING ON WOOD

Refer BKKH17008954

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**TEST REPORT**

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Number: BKKH17002809

Test conducted:

9 Total Lead (Pb) Content<sup>▲</sup>

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

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

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 REPORT

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Number: BKKH17002809

Test conducted:

Tested components:

(1) =	YELLOW COATING ON WOOD	Refer	BKKH16014215
(2) =	Black Coating On Wood	Refer	BKKH16016482
(3) =	Brown coating on wood	Refer	BKKH16017601
(4) =	DARK BROWN COATING ON WOOD	Refer	BKKH17003954
(5) =	BROWN COATING ON WOOD (8463)	Refer	BKKH17008463
(6) =	YELLOW COATING ON WOOD (8950)	Refer	BKKH17008950
(7) =	LACQUER COATING ON WOOD	Refer	BKKH17008950
(8) =	RED COATING ON WOOD	Refer	BKKH17008954

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**TEST REPORT**

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Number: BKKH17002809

Test conducted:

II Non-surface coating material (substrate)

<u>Tested component</u>	<u>Result</u> mg/kg	<u>LOD</u> mg/kg	<u>LOQ</u> mg/kg	<u>Limit</u> mg/kg
(9)	<13	1	13	100
(10)	ND	1	13	100
(11)	<13	1	13	100
(12)	ND	1	13	100
(13)	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.

Tested components:

(9) =	ORANGE SAWDUST	Refer	BKKH16017878
(10) =	Solid Wood	Refer	BKKH17000142
(11) =	BLACK SAWDUST	Refer	BKKH17000628
(12) =	CREAM ELASTIC	Refer	BKKH17003195
(13) =	WHITE CANVAS	Refer	BKKH17003199

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

\*\*\*\*\*END\*\*\*\*\*/KS/ST

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