

# TEST REPORT

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

Number: BKKH180011236

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

Date: Oct 03, 2018

### Sample description:

Quantity of sample:	One (1) set
Sample description:	Wooden toy
Date sample received:	August 17, 2018
Date information received:	September 20, 2018

### Client Information:

One (1) set of submitted sample said to be GARDEN CHIMES-I / GARDEN CHIMES-II

Item Name:	GARDEN CHIMES-I / GARDEN CHIMES-II
Item Number:	8615/8616



BKKH18011236

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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 F963-17 for Physical and mechanical tests	Pass
	U.S. ASTM F963-17 for Flammability test of materials other than textile materials	Pass
	U.S. 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
	US 16 CFR Part 1307 for Prohibition of Children’s Toys and Child Care Articles Containing Specified 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.

Comment: The testing scope of the following standards was not applicable to the submitted samples. However, the test results of the samples met the related requirements as stated in this report.

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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 F963-16: Heavy metal</u>		
LACQUER COATING ON WOOD	BKKH18008771	Jul 12, 2018
RED SAWDUST	BKKH17015017	Dec 12, 2017
GREEN SAWDUST	BKKH18001625	Feb 12, 2018
YELLOW SAWDUST	BKKH18001625	Feb 12, 2018
ORANGE SAWDUST	BKKH18001625	Feb 12, 2018
BLUE SAWDUST	BKKH18001625	Feb 12, 2018
BLUE SAWDUST (320C)	BKKH18001625	Feb 12, 2018
COTTON CORD	BKKH18011513	Aug 30, 2018
<u>Lead in surface coating</u>		
LACQUER COATING ON WOOD	BKKH18008771	Jul 12, 2018
<u>Lead in substrate</u>		
RED SAWDUST	BKKH17015017	Dec 12, 2017
GREEN SAWDUST	BKKH18001625	Feb 12, 2018
YELLOW SAWDUST	BKKH18001625	Feb 12, 2018
ORANGE SAWDUST	BKKH18001625	Feb 12, 2018
BLUE SAWDUST	BKKH18001625	Feb 12, 2018
BLUE SAWDUST (320C)	BKKH18001625	Feb 12, 2018
COTTON CORD	BKKH18011513	Aug 30, 2018
<u>Phthalate content</u>		
RED SAWDUST	BKKH17015017	Dec 12, 2017
GREEN SAWDUST	BKKH18001625	Feb 12, 2018
YELLOW SAWDUST	BKKH18001625	Feb 12, 2018
ORANGE SAWDUST	BKKH18001625	Feb 12, 2018
BLUE SAWDUST	BKKH18001625	Feb 12, 2018
BLUE SAWDUST (320C)	BKKH18001625	Feb 12, 2018
LACQUER COATING ON WOOD	BKKH18008771	Jul 12, 2018

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Number: BKKH180011236

Test conducted:

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

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 :-

Test	FHSA	Parameter
Drop test	Section 1500.53(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)	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	P
4.8	Projections	NA
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	NA
5	Labelling requirement	#
6	Instructional literature	#
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

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.

The item examined was not a toy. Therefore, the warning and other labeling requirements specified in clauses 5, 6 and 7 did not apply.

comment:

The scope of the standard was not applicable to the submitted sample. Testing was conducted with reference to the test method and requirements as stated.

Testing period : August 17, 2018 to August 31, 2018

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Number: BKKH180011236

Test conducted:

2 Flammability Test<sup>▲</sup>

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

Results : Did not ignite

▲ = Tested items are not included in the TISI Accreditation

Testing period : August 17, 2018 to August 31, 2018

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Number: BKKH180011236

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> <u>mg/kg</u>	<u>LOD</u> <u>mg/kg</u>	<u>LOQ</u> <u>mg/kg</u>	<u>Limit mg/kg</u>
	(1)				
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:  
 (1) = LACQUER COATING ON WOOD Refer BKKH18008771

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

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Number: BKKH180011236

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.

	(2)	(3)	<u>Result</u> <u>mg/kg</u>	(5)	(6)	<u>LOD</u> <u>mg/kg</u>	<u>LOQ</u> <u>mg/kg</u>	<u>Limit mg/kg</u>
Sol. Barium (Ba)	ND	<5	<5	<5	<5	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  
ND = Not detected (Less than LOD)

LOQ = Limit of Quantitation  
< = Less than

Tested components:

(2) =	RED SAWDUST	Refer	BKKH17015017
(3) =	GREEN SAWDUST	Refer	BKKH18001625
(4) =	YELLOW SAWDUST	Refer	BKKH18001625
(5) =	ORANGE SAWDUST	Refer	BKKH18001625
(6) =	BLUE SAWDUST	Refer	BKKH18001625

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

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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 F963-16, 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>	<u>Limit mg/kg</u>
	<u>mg/kg</u>		<u>mg/kg</u>	<u>mg/kg</u>	
	(7)	(8)			
Sol. Barium (Ba)	<5	ND	1	5	1000
Sol. Lead (Pb)	ND	ND	1	5	90
Sol. Cadmium (Cd)	ND	ND	1	5	75
Sol. Antimony (Sb)	ND	<5	2	5	60
Sol. Selenium (Se)	ND	ND	1	5	500
Sol. Chromium (Cr)	ND	ND	2	5	60
Sol. Mercury (Hg)	ND	ND	1	5	60
Sol. Arsenic (As)	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)      < = Less than

### Tested components:

(7) =	BLUE SAWDUST (320C)	Refer	BKKH18001625
(8) =	COTTON CORD	Refer	BKKH18011513

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

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

<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)	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) = LACQUER 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

<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>
(2)	ND	1	13	100
(3)	<13	1	13	100
(4)	<13	1	13	100
(5)	<13	1	13	100
(6)	<13	1	13	100
(7)	<13	1	13	100
(8)	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 components:

(2) = RED SAWDUST Refer BKKH17015017  
(3) = GREEN SAWDUST Refer BKKH18001625  
(4) = YELLOW SAWDUST Refer BKKH18001625  
(5) = ORANGE SAWDUST Refer BKKH18001625  
(6) = BLUE SAWDUST Refer BKKH18001625  
(7) = BLUE SAWDUST (320C) Refer BKKH18001625  
(8) = COTTON CORD Refer BKKH18011513

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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)	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) = LACQUER 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.

<u>Tested component</u>	<u>Result</u>	<u>LOD</u>	<u>LOQ</u>	<u>Limit mg/kg</u>
	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>	
(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) = LACQUER COATING ON WOOD                                  Refer BKKH18008771

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Test conducted:

- 6 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.

<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 mg/kg</u>
(1)	ND	1	13	100
(2)	<13	1	13	100
(3)	<13	1	13	100
(4)	<13	1	13	100
(5)	<13	1	13	100
(6)	<13	1	13	100
(7)	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 components:

- (1) = RED SAWDUST Refer BKKH17015017
  - (2) = GREEN SAWDUST Refer BKKH18001625
  - (3) = YELLOW SAWDUST Refer BKKH18001625
  - (4) = ORANGE SAWDUST Refer BKKH18001625
  - (5) = BLUE SAWDUST Refer BKKH18001625
  - (6) = BLUE SAWDUST (320C) Refer BKKH18001625
  - (7) = COTTON CORD Refer BKKH18011513
- \*\*\*\*\*



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Number: BKKH180011236

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.

	<u>Result</u>					<u>LOD</u>	<u>LOQ</u>	<u>(16CFR1307)</u>	<u>NPR</u>
	(1)	(2)	(3)	(4)	(5)	(%, w/w)	(%, w/w)	Limit (%, w/w)	(%, w/w)
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) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.0090	0.1	0.1
Di-n-pentyl phthalate (DPENP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.0090	0.1	0.1
Di-n-hexyl phthalate (DHEXP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.0090	0.1	0.1
Di-cyclohexyl phthalate (DCHP) <sup>▲</sup>	ND	ND	ND	ND	ND	0.0015	0.0090	0.1	0.1
Diisooctyl phthalate (DIOP) <sup>▲</sup>	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:

(1) =	RED SAWDUST	Refer	BKKH17015017
(2) =	GREEN SAWDUST	Refer	BKKH18001625
(3) =	YELLOW SAWDUST	Refer	BKKH18001625
(4) =	ORANGE SAWDUST	Refer	BKKH18001625
(5) =	BLUE SAWDUST	Refer	BKKH18001625

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Number: BKKH180011236

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.

	<u>Result</u>		<u>LOD</u>	<u>LOQ</u>	<u>(16CFR1307)</u>	<u>NPR</u>
	<u>(%, w/w)</u>		<u>(%, w/w)</u>	<u>(%, w/w)</u>	<u>Limit (%, w/w)</u>	<u>(%, w/w)</u>
	(6)	(7)				
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) <sup>▲</sup>	ND	ND	0.0015	0.0090	0.1	0.1
Di-n-pentyl phthalate (DPENP) <sup>▲</sup>	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) <sup>▲</sup>	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
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Tested components:

- (6) = BLUE SAWDUST (320C) Refer BKKH18001625
- (7) = LACQUER COATING ON WOOD Refer BKKH18008771

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Number: BKKH180011236

Test conducted:

8 Phthalate content test<sup>▲</sup>

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

	<u>Result</u>					<u>LOD</u>	<u>LOQ</u>	<u>Limit</u>
	(1)	(2)	(3)	(4)	(5)	(%, w/w)	(%, w/w)	(%, w/w)
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) =	RED SAWDUST	Refer	BKKH17015017
(2) =	GREEN SAWDUST	Refer	BKKH18001625
(3) =	YELLOW SAWDUST	Refer	BKKH18001625
(4) =	ORANGE SAWDUST	Refer	BKKH18001625
(5) =	BLUE SAWDUST	Refer	BKKH18001625

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**TEST REPORT**

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The results relate only to the item tested.

Number: BKKH180011236

Test conducted:

Phthalate content test<sup>▲</sup>

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>		<u>(%, w/w)</u>	<u>(%, w/w)</u>	<u>(%, w/w)</u>
	(6)	(7)			
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:

(6) =	BLUE SAWDUST (320C)	Refer	BKKH18001625
(7) =	LACQUER COATING ON WOOD	Refer	BKKH18008771

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**TEST REPORT**

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Number: BKKH180011236

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>LOD</u>	<u>LOQ</u>	<u>Limit</u>
	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>	<u>mg/kg</u>
(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 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.

Tested components:

(1) = LACQUER COATING ON WOOD Refer BKKH18008771

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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: BKKH180011236

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
(2)	ND	1	13	100
(3)	<13	1	13	100
(4)	<13	1	13	100
(5)	<13	1	13	100
(6)	<13	1	13	100
(7)	<13	1	13	100
(8)	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:

(2) =	RED SAWDUST	Refer	BKKH17015017
(3) =	GREEN SAWDUST	Refer	BKKH18001625
(4) =	YELLOW SAWDUST	Refer	BKKH18001625
(5) =	ORANGE SAWDUST	Refer	BKKH18001625
(6) =	BLUE SAWDUST	Refer	BKKH18001625
(7) =	BLUE SAWDUST (320C)	Refer	BKKH18001625
(8) =	COTTON CORD	Refer	BKKH18011513

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

\*\*\*\*\*END\*\*\*\*\*/KS/NK

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