

TEST REPORT

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The results relate only to the item tested.

Number: BKKH18000832

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

Date: Apr 12, 2018

Sample description:

Quantity of sample:	One (1) set
Sample description:	Wooden toy
Date sample received:	January 22, 2018
Date information received:	April 05, 2018
Date sample resubmitted:	January 29, 2018

Client Information:

One (1) set of submitted sample said to be NUMBER 1-10

Item Name: NUMBER 1-10
Item Number: 5165



Test conducted:

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

To be continued

Authorized by :
For Intertek Testing Services (Thailand) Ltd.,
Hardlines Laboratory

Ladtaka W.

Ladtaka Wongwiboonporn
Laboratory Manager
Hardlines Department

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Conclusion:

Tested samples

Submitted sample

Standard

U.S. ASTM F963-16 for Physical and mechanical tests

Result

Pass

U.S. ASTM F963-16 for Flammability test of materials
other than textile materials

Pass

U.S. ASTM F963-16 for
Heavy elements Test

Pass

Standard - U.S. CFR title 16

(CPSC regulations)
Part 1303 total Lead content

Pass

16 CFR Part 1610
Flammability test

Pass

Standard

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 F963-16: Heavy metal</u>		
BROWN COATING ON WOOD	BKKH17008463	Jul 14, 2017
MULTICOLOR COATING ON PAPER (5165)	BKKH17008823	Jul 24, 2017
BROWN SAWDUST (160C)	BKKH17003189	Mar 13, 2017
YELLOW SAWDUST (1235C)	BKKH17003189	Mar 13, 2017
CREAM COTTON CORD	BKKH17008547S1	Jul 24, 2017
CREAM FABRIC	BKKH17008821S1	Nov 22, 2017
PAPER BASE (5165)	BKKH17008823	Jul 24, 2017
RED SAWDUST	BKKH17015017	Dec 12, 2017
DARK GREEN SAWDUST	BKKH18001625	Feb 12, 2018
BLUE SAWDUST	BKKH18001625	Feb 12, 2018
<u>Lead in surface coating</u>		
BROWN COATING ON WOOD	BKKH17008463	Jul 14, 2017
MULTICOLOR COATING ON PAPER (5165)	BKKH17008823	Jul 24, 2017
<u>Lead in substrate</u>		
BROWN SAWDUST (160C)	BKKH17003189	Mar 13, 2017
YELLOW SAWDUST (1235C)	BKKH17003189	Mar 13, 2017
CREAM COTTON CORD	BKKH17008547S1	Jul 24, 2017
CREAM FABRIC	BKKH17008821S1	Nov 22, 2017
PAPER BASE (5165)	BKKH17008823	Jul 24, 2017
RED SAWDUST	BKKH17015017	Dec 12, 2017
DARK GREEN SAWDUST	BKKH18001625	Feb 12, 2018
BLUE SAWDUST	BKKH18001625	Feb 12, 2018
<u>Phthalate content</u>		
BROWN SAWDUST (160C)	BKKH17003189	Mar 13, 2017
YELLOW SAWDUST (1235C)	BKKH17003189	Mar 13, 2017
BROWN COATING ON WOOD	BKKH17008463	Jul 14, 2017
RED SAWDUST	BKKH17015017	Dec 12, 2017
DARK GREEN SAWDUST	BKKH18001625	Feb 12, 2018
BLUE SAWDUST	BKKH18001625	Feb 12, 2018



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Test conducted:

1 Physical And Mechanical Tests

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 : -

<u>Test</u>	<u>FHSA</u>	<u>Parameter</u>
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

<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
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	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	P #
6	Instructional literature	P
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

= Only artwork of packaging was provided for review.

Testing period : January 22, 2018 to January 30, 2018

2 Flammability Test

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

Results : Did not ignite

Testing period : January 22, 2018 to January 29, 2018

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Test conducted:

3 Flammability Test (US CPSC 16 CFR Part 1610)[▲]

x Plain surface

o Raised surface

Burn direction:	x length o width	Burn direction:	x length o width
Prelim Raised surface:		Prelim Raised surface:	
length : DNI		length : DNI	
width : DNI		width : DNI	
<u>Original (seconds)</u>		<u>After one drycleaning/laundry (seconds)</u>	<u>Requirement</u>
1	DNI	1	DNI
2	DNI	2	DNI
3	DNI	3	DNI
4	DNI	4	DNI
5	DNI	5	DNI

Classification:

x class 1,

Normal flammability

o class 2,

Intermediate flammability, raised surface

o class 3,

Rapid and intense burning

Explanation of flammability results:

- *IBE Ignited but extinguished, the asterisk (*) denotes a burn that goes under the cord without breaking the cord.
- DNI Did not ignite.
- IBE Ignited but extinguished.
- 0.0 BB Actual time of burn from ignition until the flame severs the cord directly above the specimen (releasing the weight which in turn stops the timer) will give a numerical time in 0.0 seconds
- *0.0SFBB Time in seconds, surface flash base burn possibly starting at the point of impingement.
- Poi The asterisk is accompanied by the following: "unable to make absolute determination as to source of base burns." burning. It does not qualify as a base burn under the current interpretation of cfr 1610.
- 0.0SF Only Time in seconds, surface flash only. No damage to the base fabric.
- 0.0 SFBB Time in seconds, surface flash base burn. Base starts burning at points other than the point of impingement.
- SF pw Surface flash, part way. No time shown because the surface flash did not reach the cord.
- SF uc Surface flash under the cord, but does not break the cord.
- SF poi Surface flash, at point of impingement only (equivalent to "did not ignite" for plain surface).
- # Plain surface fabric with an average burn time less than 4.0 seconds as class 3 flammability verse the 16 CFR 1610 standard of 3.5 seconds.

▲ = Tested items are not included in the TISI Accreditation

Test component: White fabric with brown print

Refer BKKH17008306



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Test conducted:

4 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)	(2)			
Sol. Barium (Ba)	264	ND	1	5	1000
Sol. Lead (Pb)	ND	ND	1	5	90
Sol. Cadmium (Cd)	ND	ND	1	5	75
Sol. Antimony (Sb)	ND	ND	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)

Tested components:

(1) =	BROWN COATING ON WOOD	Refer	BKKH17008463
(2) =	MULTICOLOR COATING ON PAPER (5165)	Refer	BKKH17008823

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

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Number: BKKH18000832

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>mg/kg</u>			<u>LOD</u> <u>mg/kg</u>	<u>LOQ</u> <u>mg/kg</u>	<u>Limit mg/kg</u>
	(3)	(4)	(5)	(6)	(7)			
Sol. Barium (Ba)	<5	<5	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
ND = Not detected (Less than LOD)

LOQ = Limit of Quantitation
< = Less than

Tested components:

(3) =	BROWN SAWDUST (160C)	Refer	BKKH17003189
(4) =	YELLOW SAWDUST (1235C)	Refer	BKKH17003189
(5) =	CREAM COTTON CORD	Refer	BKKH17008547S1
(6) =	CREAM FABRIC	Refer	BKKH17008821S1
(7) =	PAPER BASE (5165)	Refer	BKKH17008823

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>mg/kg</u>	<u>LOD</u> <u>mg/kg</u>	<u>LOQ</u> <u>mg/kg</u>	<u>Limit mg/kg</u>
	(8)	(9)	(10)			
Sol. Barium (Ba)	ND	<5	<5	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
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:

(8) =	RED SAWDUST	Refer	BKKH17015017
(9) =	DARK GREEN SAWDUST	Refer	BKKH18001625
(10) =	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:

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
(2)	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 BKKH17008463
 (2) = MULTICOLOR COATING ON PAPER (5165) Refer BKKH17008823

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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 F963-16, 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>
(3)	<13	1	13	100
(4)	<13	1	13	100
(5)	ND	1	13	100
(6)	ND	1	13	100
(7)	ND	1	13	100
(8)	ND	1	13	100
(9)	<13	1	13	100
(10)	<13	1	13	100

Remark: 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:

(3) =	BROWN SAWDUST (160C)	Refer	BKKH17003189
(4) =	YELLOW SAWDUST (1235C)	Refer	BKKH17003189
(5) =	CREAM COTTON CORD	Refer	BKKH17008547S1
(6) =	CREAM FABRIC	Refer	BKKH17008821S1
(7) =	PAPER BASE (5165)	Refer	BKKH17008823
(8) =	RED SAWDUST	Refer	BKKH17015017
(9) =	DARK GREEN SAWDUST	Refer	BKKH18001625
(10) =	BLUE SAWDUST	Refer	BKKH18001625

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Test conducted:

5

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
(2)	ND	0.0002	0.0013	0.0090

Remark:	% = percentage	< =	Less than
	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	BKKH17008463
(2) =	MULTICOLOR COATING ON PAPER (5165)	Refer	BKKH17008823

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Number: BKKH18000832

Test conducted:

- 6 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>mg/kg</u>	<u>LOD</u> <u>mg/kg</u>	<u>LOQ</u> <u>mg/kg</u>	<u>Limit mg/kg</u>
(1)	ND	2	13	90
(2)	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 BKKH17008463
(2) = MULTICOLOR COATING ON PAPER (5165) Refer BKKH17008823



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Test conducted:

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

(1) =	BROWN SAWDUST (160C)	Refer	BKKH17003189
(2) =	YELLOW SAWDUST (1235C)	Refer	BKKH17003189
(3) =	CREAM COTTON CORD	Refer	BKKH17008547S1
(4) =	CREAM FABRIC	Refer	BKKH17008821S1
(5) =	PAPER BASE (5165)	Refer	BKKH17008823
(6) =	RED SAWDUST	Refer	BKKH17015017
(7) =	DARK GREEN SAWDUST	Refer	BKKH18001625
(8) =	BLUE SAWDUST	Refer	BKKH18001625

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Test conducted:

8 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> (%, w/w)					<u>LOD</u> (%, w/w)	<u>LOQ</u> (%, w/w)	<u>Limit</u> (%, w/w)	<u>NPR</u> (%, 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	0.1	--
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	ND	0.0015	0.0090	0.1	--
Di-isobutyl phthalate (DIBP)▲	ND	ND	ND	ND	ND	0.0015	0.0090	--	0.1
Di-n-pentyl phthalate (DPENP)▲	ND	ND	ND	ND	ND	0.0015	0.0090	--	0.1
Di-n-hexyl phthalate (DHEXP)▲	ND	ND	ND	ND	ND	0.0015	0.0090	--	0.1
Di-cyclohexyl phthalate (DCHP)▲	ND	ND	ND	ND	ND	0.0015	0.0090	--	0.1
Diisooctyl phthalate (DIOP)▲	ND	ND	ND	ND	ND	0.0015	0.0090	--	--

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:

(1) =	BROWN SAWDUST (160C)	Refer	BKKH17003189
(2) =	YELLOW SAWDUST (1235C)	Refer	BKKH17003189
(3) =	BROWN COATING ON WOOD	Refer	BKKH17008463
(4) =	RED SAWDUST	Refer	BKKH17015017
(5) =	DARK GREEN SAWDUST	Refer	BKKH18001625

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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.

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

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) = BLUE SAWDUST

Refer BKKH18001625

TEST REPORT

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The results relate only to the item tested.

Number: BKKH18000832

Test conducted:

9 Phthalate content test[▲]

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>
	(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

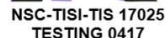
Note : The above limit was quoted according to the California Proposition 65

Tested components:

(1) =	BROWN SAWDUST (160C)	Refer	BKKH17003189
(2) =	YELLOW SAWDUST (1235C)	Refer	BKKH17003189
(3) =	BROWN COATING ON WOOD	Refer	BKKH17008463
(4) =	RED SAWDUST	Refer	BKKH17015017
(5) =	DARK GREEN SAWDUST	Refer	BKKH18001625

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The results relate only to the item tested



Test conducted:

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

		<u>Result</u> (%, w/w)	<u>LOD</u> (%, w/w)	<u>LOQ</u> (%, w/w)	<u>Limit</u> (%, w/w)
	(6)				
Dibutyl Phthalate (DBP)	ND		0.0015	0.0030	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND		0.0015	0.0030	0.1
Benzyl butyl Phthalate (BBP)	ND		0.0015	0.0030	0.1
Di-iso-nonyl Phthalate (DINP)	ND		0.0015	0.0090	0.1
Dioctyl Phthalate (DNOP)	ND		0.0015	0.0030	0.1
Di-iso-decyl Phthalate (DIDP)	ND		0.0015	0.0090	0.1
Di-n-hexyl Phthalate (DnHP)	ND		0.0015	0.0030	0.1

▲ = Tested items are not included in the TISI Accreditation

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

Refer BKKH18001625

TEST REPORT

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Number: BKKH18000832

Test conducted:

10 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

<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
(2)	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)	=	BROWN COATING ON WOOD	Refer	BKKH17008463
(2)	=	MULTICOLOR COATING ON PAPER (5165)	Refer	BKKH17008823

TEST REPORT

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The results relate only to the item tested.

Number: BKKH18000832

Test conducted:

II Non-surface coating material (substrate)

<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>
(3)	<13	1	13	100
(4)	<13	1	13	100
(5)	ND	1	13	100
(6)	ND	1	13	100
(7)	ND	1	13	100
(8)	ND	1	13	100
(9)	<13	1	13	100
(10)	<13	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:

(3) =	BROWN SAWDUST (160C)	Refer	BKKH17003189
(4) =	YELLOW SAWDUST (1235C)	Refer	BKKH17003189
(5) =	CREAM COTTON CORD	Refer	BKKH17008547S1
(6) =	CREAM FABRIC	Refer	BKKH17008821S1
(7) =	PAPER BASE (5165)	Refer	BKKH17008823
(8) =	RED SAWDUST	Refer	BKKH17015017
(9) =	DARK GREEN SAWDUST	Refer	BKKH18001625
(10) =	BLUE SAWDUST	Refer	BKKH18001625

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

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

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