

TEST REPORT

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The results relate only to the item tested.

Number: BKKH20005455

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

Issued Date: Jul 02, 2020

Sample description:

Quantity of sample: One (1) set
Sample description: Wooden toy
Date sample received: May 20, 2020
Date information received: July 01, 2020

Client Information:

One (1) set of submitted sample said to be STACKING WHEELS

Item Name: STACKING WHEELS
Item Number: 5705
Label Age grading: 12m+
Country of origin: Thailand



BKKH20005455

Test conducted:

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

To be continued

For and on behalf of :
Intertek Testing Services (Thailand) Ltd.,
Hardlines Laboratory



Ladtaka Wongwiboonporn
Laboratory Manager
Hardlines Department

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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 F963-17 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 |



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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 F963-17: Heavy metal</u> | | |
| WHITE COATING ON WOOD | BKKH19007793S1 | Jul 15, 2019 |
| LACQUER COATING ON WOOD | BKKH19007792S1 | Jul 15, 2019 |
| BLACK COATING ON WOOD | BKKH19007793S1 | Jul 15, 2019 |
| GRAY COATING ON WOOD | BKKH19007792S1 | Jul 15, 2019 |
| WHITE COATING ON WOOD | BKKH19007793S1 | Jul 15, 2019 |
| BLACK COATING ON WOOD | BKKH19007793S1 | Jul 15, 2019 |
| GRAY COATING ON WOOD | BKKH20002719 | Mar 12, 2020 |
| COTTON CORD | BKKH19008553 | Jul 08, 2019 |
| <u>Lead in surface coating</u> | | |
| WHITE COATING ON WOOD | BKKH19007793S1 | Jul 15, 2019 |
| LACQUER COATING ON WOOD | BKKH19007792S1 | Jul 15, 2019 |
| BLACK COATING ON WOOD | BKKH19007793S1 | Jul 15, 2019 |
| GRAY COATING ON WOOD | BKKH19007792S1 | Jul 15, 2019 |
| WHITE COATING ON WOOD | BKKH19007793S1 | Jul 15, 2019 |
| BLACK COATING ON WOOD | BKKH19007793S1 | Jul 15, 2019 |
| GRAY COATING ON WOOD | BKKH20002719 | Mar 12, 2020 |
| <u>Lead in substrate</u> | | |
| COTTON CORD | BKKH19008553 | Jul 08, 2019 |
| <u>Phthalate content</u> | | |
| WHITE COATING ON WOOD | BKKH19007793S1 | Jul 15, 2019 |
| LACQUER COATING ON WOOD | BKKH19007792S1 | Jul 15, 2019 |
| BLACK COATING ON WOOD | BKKH19007793S1 | Jul 15, 2019 |
| GRAY COATING ON WOOD | BKKH19007792S1 | Jul 15, 2019 |
| WHITE COATING ON WOOD | BKKH19007793S1 | Jul 15, 2019 |
| BLACK COATING ON WOOD | BKKH19007793S1 | Jul 15, 2019 |
| GRAY COATING ON WOOD | BKKH20002719 | Mar 12, 2020 |



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Test conducted:

1 Physical And Mechanical Tests

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

Applicant's specified testing age : For ages over 12 months.

The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations : -

| Test | FHSA | Parameter |
|------------------|--------------------|-------------|
| Drop test | Section 1500.51(b) | 10 x 4.5 ft |
| Torque test | Section 1500.53(e) | 4 in-lbf |
| Tension test | Section 1500.53(f) | 15 lbf |
| Compression test | Section 1500.53(g) | 30 lbf |

| 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 | P |
| 4.15 | Stability and over-load requirements | NA |
| 4.16 | Confined spaces | NA |
| 4.17 | Wheels, tires and axles | P |
| 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:

| Clause | Testing items | Assessment |
|---------------------------------------|--|------------|
| 4.23 | Rattles | NA |
| 4.24 | Squeeze toys | NA |
| 4.25 (4.25.10, 4.25.11 [▲]) | 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

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 : May 22, 2020 to June 29, 2020



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Number: BKKH20005455

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 : May 22, 2020 to June 29, 2020



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Number: BKKH20005455

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.

| | (1) | (2) | Result mg/kg (3) | (4) | (5) | LOD mg/kg | LOQ mg/kg | Limit mg/kg |
|--------------------|-----|-----|------------------------|-----|-----|--------------|--------------|-------------|
| 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) = WHITE COATING ON WOOD Refer BKKH19007793S1
- (2) = LACQUER COATING ON WOOD Refer BKKH19007792S1
- (3) = BLACK COATING ON WOOD Refer BKKH19007793S1
- (4) = GRAY COATING ON WOOD Refer BKKH19007792S1
- (5) = WHITE COATING ON WOOD Refer BKKH19007793S1

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



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Number: BKKH20005455

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.

| | (6) | (7) | <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> |
|--------------------|-----|-----|-------------------------------|----------------------------|----------------------------|--------------------|
| Sol. Barium (Ba) | ND | 8 | | 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:
(6) = BLACK COATING ON WOOD Refer BKKH19007793S1
(7) = GRAY COATING ON WOOD Refer BKKH20002719

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



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Number: BKKH20005455

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.

| | <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) | | | | |
| 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:

(8) = COTTON CORD

Refer BKKH19008553

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 F963-17, 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 |
| (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 |

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) = | WHITE COATING ON WOOD | Refer | BKKH19007793S1 |
| (2) = | LACQUER COATING ON WOOD | Refer | BKKH19007792S1 |
| (3) = | BLACK COATING ON WOOD | Refer | BKKH19007793S1 |
| (4) = | GRAY COATING ON WOOD | Refer | BKKH19007792S1 |
| (5) = | WHITE COATING ON WOOD | Refer | BKKH19007793S1 |
| (6) = | BLACK COATING ON WOOD | Refer | BKKH19007793S1 |
| (7) = | GRAY COATING ON WOOD | Refer | BKKH20002719 |



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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>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> |
|-------------------------|-------------------------------|------------------------------|------------------------------|--------------------------------|
| (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)

Tested components:

(8) = COTTON CORD

Refer BKKH19008553



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Number: BKKH20005455

Test conducted:

4 Total Lead (Pb) content[▲]

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 |
| (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 |

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) = WHITE COATING ON WOOD | Refer BKKH19007793S1 |
| (2) = LACQUER COATING ON WOOD | Refer BKKH19007792S1 |
| (3) = BLACK COATING ON WOOD | Refer BKKH19007793S1 |
| (4) = GRAY COATING ON WOOD | Refer BKKH19007792S1 |
| (5) = WHITE COATING ON WOOD | Refer BKKH19007793S1 |
| (6) = BLACK COATING ON WOOD | Refer BKKH19007793S1 |
| (7) = GRAY COATING ON WOOD | Refer BKKH20002719 |



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Number: BKKH20005455

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.

| <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 |
| (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 |

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) = WHITE COATING ON WOOD Refer BKKH19007793S1
- (2) = LACQUER COATING ON WOOD Refer BKKH19007792S1
- (3) = BLACK COATING ON WOOD Refer BKKH19007793S1
- (4) = GRAY COATING ON WOOD Refer BKKH19007792S1
- (5) = WHITE COATING ON WOOD Refer BKKH19007793S1
- (6) = BLACK COATING ON WOOD Refer BKKH19007793S1
- (7) = GRAY COATING ON WOOD Refer BKKH20002719



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Number: BKKH20005455

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)▲ | 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:

| | | |
|-------------------------------|-------|----------------|
| (1) = WHITE COATING ON WOOD | Refer | BKKH19007793S1 |
| (2) = LACQUER COATING ON WOOD | Refer | BKKH19007792S1 |
| (3) = BLACK COATING ON WOOD | Refer | BKKH19007793S1 |
| (4) = GRAY COATING ON WOOD | Refer | BKKH19007792S1 |
| (5) = WHITE COATING ON WOOD | Refer | BKKH19007793S1 |



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

Refer BKKH19007793S1
Refer BKKH20002719



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Number: BKKH20005455

Test conducted:

8 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> |
|-----------------------------------|---------------|-----|-----|-----|-----|------------|------------|--------------|
| | (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 |
| Diocetyl 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) = | WHITE COATING ON WOOD | Refer | BKKH19007793S1 |
| (2) = | LACQUER COATING ON WOOD | Refer | BKKH19007792S1 |
| (3) = | BLACK COATING ON WOOD | Refer | BKKH19007793S1 |
| (4) = | GRAY COATING ON WOOD | Refer | BKKH19007792S1 |
| (5) = | WHITE COATING ON WOOD | Refer | BKKH19007793S1 |



TEST REPORT

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The results relate only to the item tested.

Number: BKKH20005455

Test conducted:

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> |
| | (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 |
| Diocetyl 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) = | BLACK COATING ON WOOD | Refer | BKKH19007793S1 |
| (7) = | GRAY COATING ON WOOD | Refer | BKKH20002719 |



TEST REPORT

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Number: BKKH20005455

Test conducted:

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

I Surface coating material

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

Remark:

mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million
 LOD = Limit of Detection
 LOQ = Limit of Quantitation
 ND = Not detected (Less than LOD)

Requirement:

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

Tested components:

| | | |
|-------------------------------|-------|----------------|
| (1) = WHITE COATING ON WOOD | Refer | BKKH19007793S1 |
| (2) = LACQUER COATING ON WOOD | Refer | BKKH19007792S1 |
| (3) = BLACK COATING ON WOOD | Refer | BKKH19007793S1 |
| (4) = GRAY COATING ON WOOD | Refer | BKKH19007792S1 |
| (5) = WHITE COATING ON WOOD | Refer | BKKH19007793S1 |
| (6) = BLACK COATING ON WOOD | Refer | BKKH19007793S1 |
| (7) = GRAY COATING ON WOOD | Refer | BKKH20002719 |



TEST REPORT

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The results relate only to the item tested.

Number: BKKH20005455

Test conducted:

II Non-surface coating material (substrate)

| <u>Tested component</u> | <u>Result</u> | <u>LOD</u> | <u>LOQ</u> | <u>Limit</u> |
|-------------------------|---------------|--------------|--------------|--------------|
| (8) | <u>mg/kg</u> | <u>mg/kg</u> | <u>mg/kg</u> | <u>mg/kg</u> |
| | 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)

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:

(8) = COTTON CORD

Refer BKKH19008553

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

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

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