

## TEST REPORT

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The results relate only to the item tested.

Number: BKKH19003958

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

Date: Apr 23, 2019

### Sample description:

Quantity of sample: One (1) set  
Sample description: Wooden toy  
Date sample received: March 22, 2019  
Date information received: April 09, 2019

### Client Information:

One (1) set of submitted sample said to be ROAD&RAIL-STARTER SET/ROAD&RAIL-STANDARD SET

Item Name: ROAD&RAIL-STARTER SET/ROAD&RAIL-STANDARD SET  
Item Number: 6273/6274



### 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*

Ladtaka Wongwiboonporn  
Laboratory Manager  
Hardlines Department

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### Conclusion:

#### Tested samples

Submitted sample

#### Standard

U.S. ASTM F963-17 for Physical and mechanical tests

#### Result

Pass

U.S. ASTM F963-17 for Flammability test of materials  
other than textile materials

Pass

U.S. ASTM F963-16 and ASTM F963-17  
for Heavy elements Test

Pass

#### Standard - U.S. CFR title 16

(CPSC regulations)

Part 1303 total Lead content

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

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.

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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>		
YELLOW COATING ON WOOD	BKKH18008773	Jul 12, 2018
RED COATING ON WOOD	BKKH18008770	Jul 12, 2018
GRAY COATING ON WOOD	BKKH18012544	Sep 26, 2018
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
BROWN COATING ON WOOD	BKKH18008771	Jul 12, 2018
<u>ASTM F963-17: Heavy metal</u>		
DARK GRAY COATING ON WOOD	BKKH18016832	Dec 28, 2018
BLACK RUBBER WITH WHITE COATING	BKKH19004872	Apr 22, 2019
BLACK RUBBER (WHEEL)	BKKH18016685	Dec 24, 2018
WHITE PLASTIC (WHEEL)	BKKH18016685	Dec 24, 2018
<u>Lead in surface coating</u>		
YELLOW COATING ON WOOD	BKKH18008773	Jul 12, 2018
RED COATING ON WOOD	BKKH18008770	Jul 12, 2018
GRAY COATING ON WOOD	BKKH18012544	Sep 26, 2018
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
BROWN COATING ON WOOD	BKKH18008771	Jul 12, 2018
DARK GRAY COATING ON WOOD	BKKH18016832	Dec 28, 2018
<u>Lead in substrate</u>		
BLACK RUBBER WITH WHITE COATING	BKKH19004872	Apr 22, 2019
BLACK RUBBER (WHEEL)	BKKH18016685	Dec 24, 2018
WHITE PLASTIC (WHEEL)	BKKH18016685	Dec 24, 2018
<u>Phthalate content</u>		
YELLOW COATING ON WOOD	BKKH18008773	Jul 12, 2018
RED COATING ON WOOD	BKKH18008770	Jul 12, 2018
BLACK RUBBER WITH WHITE COATING	BKKH19004872	Apr 22, 2019
GRAY COATING ON WOOD	BKKH18012544	Sep 26, 2018
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
BROWN COATING ON WOOD	BKKH18008771	Jul 12, 2018
DARK GRAY COATING ON WOOD	BKKH18016832	Dec 28, 2018
BLACK RUBBER (WHEEL)	BKKH18016685	Dec 24, 2018
WHITE PLASTIC (WHEEL)	BKKH18016685	Dec 24, 2018

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Test conducted:

1 Physical And Mechanical Tests▲

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

Age group for testing : For age over 3 years.

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

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	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	P
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

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 22, 2019 to April 09, 2019

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Number: BKKH19003958

Test conducted:

### 2 Flammability Test<sup>▲</sup>

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

<u>Sample</u>	<u>Ignition point</u>	<u>Burn length</u> (inch)	<u>Time</u> (sec)	<u>Actual</u> <u>burn rate</u> (inch/sec)	<u>Rounded burn</u> <u>rate</u> (inch/sec)	<u>Limit</u> (inch/sec)
Road	End to end	1.2	60	0.02	-	0.10

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

▲ = Tested items are not included in the TISI Accreditation

Testing period : March 22, 2019 to April 09, 2019

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Number: BKKH19003958

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)	(2)	(3)	(4)	(5)			
Sol. Barium (Ba)	5	604	412	10	572	1	5	1000
Sol. Lead (Pb)	<5	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:

(1) =	YELLOW COATING ON WOOD	Refer	BKKH18008773
(2) =	RED COATING ON WOOD	Refer	BKKH18008770
(3) =	GRAY COATING ON WOOD	Refer	BKKH18012544
(4) =	WHITE COATING ON WOOD	Refer	BKKH18008771
(5) =	BROWN 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: BKKH19003958

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<sup>▲</sup>, 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>
(6)				
Sol. Barium (Ba)	286	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 items are not included in the TISI Accreditation

Tested components:

(6) = DARK GRAY COATING ON WOOD

Refer BKKH18016832

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

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Number: BKKH19003958

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<sup>▲</sup>, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

	(7)	(8)	Result mg/kg (9)	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  
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:

(7) =	BLACK RUBBER WITH WHITE COATING	Refer	BKKH19004872
(8) =	BLACK RUBBER (WHEEL)	Refer	BKKH18016685
(9) =	WHITE PLASTIC (WHEEL)	Refer	BKKH18016685

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 and F963-17<sup>▲</sup>, 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)	<13	2	13	90
(5)	ND	2	13	90
(6)	ND	2	13	90

Remark: mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million  
 LOD = Limit of Detection LOQ = Limit of Quantitation  
 ND = Not detected (Less than LOD) < = Less than  
 ▲ = Tested items are not included in the TISI Accreditation

### Tested components:

(1) = YELLOW COATING ON WOOD	Refer BKKH18008773
(2) = RED COATING ON WOOD	Refer BKKH18008770
(3) = GRAY COATING ON WOOD	Refer BKKH18012544
(4) = WHITE COATING ON WOOD	Refer BKKH18008771
(5) = BROWN COATING ON WOOD	Refer BKKH18008771
(6) = DARK GRAY COATING ON WOOD	Refer BKKH18016832

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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<sup>▲</sup>, 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>
(7)	ND	1	13	100
(8)	ND	1	13	100
(9)	ND	1	13	100

Remark: mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million  
 LOD = Limit of Detection LOQ = Limit of Quantitation  
 ND = Not detected (Less than LOD)  
 ▲ = Tested items are not included in the TISI Accreditation

Tested components:

(7) =	BLACK RUBBER WITH WHITE COATING	Refer	BKKH19004872
(8) =	BLACK RUBBER (WHEEL)	Refer	BKKH18016685
(9) =	WHITE PLASTIC (WHEEL)	Refer	BKKH18016685

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Test conducted:

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)	<0.0013	0.0002	0.0013	0.0090
(5)	ND	0.0002	0.0013	0.0090
(6)	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) =	YELLOW COATING ON WOOD	Refer	BKKH18008773
(2) =	RED COATING ON WOOD	Refer	BKKH18008770
(3) =	GRAY COATING ON WOOD	Refer	BKKH18012544
(4) =	WHITE COATING ON WOOD	Refer	BKKH18008771
(5) =	BROWN COATING ON WOOD	Refer	BKKH18008771
(6) =	DARK GRAY COATING ON WOOD	Refer	BKKH18016832

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Number: BKKH19003958

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)	<13	2	13	90
(5)	ND	2	13	90
(6)	ND	2	13	90

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

Tested components:

(1) = YELLOW COATING ON WOOD	Refer BKKH18008773
(2) = RED COATING ON WOOD	Refer BKKH18008770
(3) = GRAY COATING ON WOOD	Refer BKKH18012544
(4) = WHITE COATING ON WOOD	Refer BKKH18008771
(5) = BROWN COATING ON WOOD	Refer BKKH18008771
(6) = DARK GRAY COATING ON WOOD	Refer BKKH18016832

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Number: BKKH19003958

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)	ND	1	13	100
(3)	ND	1	13	100

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

Tested components:

(1) =	BLACK RUBBER WITH WHITE COATING	Refer	BKKH19004872
(2) =	BLACK RUBBER (WHEEL)	Refer	BKKH18016685
(3) =	WHITE PLASTIC (WHEEL)	Refer	BKKH18016685

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Number: BKKH19003958

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> (%, w/w)					<u>LOD</u> (%, w/w)	<u>LOQ</u> (%, w/w)	<u>(16CFR1307)</u> Limit (%, w/w)	<u>NPR</u> (%, w/w)
	(1)	(2)	(3)	(4)	(5)				
Dibutyl Phthalate (DBP)	ND	ND	ND	0.0035	ND	0.0015	0.0030	0.1	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	0.0031	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	<0.0030	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) = YELLOW COATING ON WOOD	Refer	BKKH18008773
(2) = RED COATING ON WOOD	Refer	BKKH18008770
(3) = BLACK RUBBER WITH WHITE COATING	Refer	BKKH19004872
(4) = GRAY COATING ON WOOD	Refer	BKKH18012544
(5) = WHITE COATING ON WOOD	Refer	BKKH18008771

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

Remark : The above limit was quoted according to US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates except the Phthalate no.5-6,11 was conducted as per applicant requested only.

NPR = Notice of proposed rulemaking  
%, w/w = Percentage weight by weight  
LOD = Limit of Detection  
LOQ = Limit of Quantitation  
ND = Not detected (Less than LOD)  
▲ = Tested items are not included in the TISI Accreditation

Tested components:

(6) = BROWN COATING ON WOOD	Refer	BKKH18008771
(7) = DARK GRAY COATING ON WOOD	Refer	BKKH18016832
(8) = BLACK RUBBER (WHEEL)	Refer	BKKH18016685
(9) = WHITE PLASTIC (WHEEL)	Refer	BKKH18016685

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## TEST REPORT

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The results relate only to the item tested.

Number: BKKH19003958

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>
	<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	0.0035	ND	0.0015	0.0030	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	0.0031	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
Di-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-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) =	YELLOW COATING ON WOOD	Refer	BKKH18008773
(2) =	RED COATING ON WOOD	Refer	BKKH18008770
(3) =	BLACK RUBBER WITH WHITE COATING	Refer	BKKH19004872
(4) =	GRAY COATING ON WOOD	Refer	BKKH18012544
(5) =	WHITE COATING ON WOOD	Refer	BKKH18008771

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## TEST REPORT

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The results relate only to the item tested.

Number: BKKH19003958

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)	(8)	(9)			
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	0.0015	0.0030	0.1
Di(2-ethylhexyl) phthalate (DEHP)	ND	ND	ND	ND	0.0015	0.0030	0.1
Benzyl butyl Phthalate (BBP)	ND	ND	ND	ND	0.0015	0.0030	0.1
Di-iso-nonyl Phthalate (DINP)	ND	ND	ND	ND	0.0015	0.0090	0.1
Diocetyl Phthalate (DNOP)	ND	ND	ND	ND	0.0015	0.0030	0.1
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	0.0015	0.0090	0.1
Di-n-hexyl Phthalate (DnHP)	ND	ND	ND	ND	0.0015	0.0030	0.1

Remark : % , w/w = Percentage weight by weight

LOD = Limit of Detection

LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

▲ = Tested items are not included in the TISI Accreditation

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

Tested components:

(6) = BROWN COATING ON WOOD	Refer	BKKH18008771
(7) = DARK GRAY COATING ON WOOD	Refer	BKKH18016832
(8) = BLACK RUBBER (WHEEL)	Refer	BKKH18016685
(9) = WHITE PLASTIC (WHEEL)	Refer	BKKH18016685

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## TEST REPORT

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Number: BKKH19003958

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> <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)	<13	2	13	90
(5)	ND	2	13	90
(6)	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.

Tested components:

(1) = YELLOW COATING ON WOOD	Refer	BKKH18008773
(2) = RED COATING ON WOOD	Refer	BKKH18008770
(3) = GRAY COATING ON WOOD	Refer	BKKH18012544
(4) = WHITE COATING ON WOOD	Refer	BKKH18008771
(5) = BROWN COATING ON WOOD	Refer	BKKH18008771
(6) = DARK GRAY COATING ON WOOD	Refer	BKKH18016832

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## TEST REPORT

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The results relate only to the item tested.

Number: BKKH19003958

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>
(7)	ND	1	13	100
(8)	ND	1	13	100
(9)	ND	1	13	100

Remark:

mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million

LOD = Limit of Detection

LOQ = Limit of Quantitation

ND = Not detected (Less than LOD)

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:

(7) = BLACK RUBBER WITH WHITE COATING	Refer	BKKH19004872
(8) = BLACK RUBBER (WHEEL)	Refer	BKKH18016685
(9) = WHITE PLASTIC (WHEEL)	Refer	BKKH18016685

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

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

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