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Date: Aug 27, 2018

The results relate only to the item tested.

Applicant: PLAN CREATIONS CO., LTD.

8 MOO 8, TRANG-PALIAN RD.,

YANTAKAO, TRANG, THAILAND 92140 ATTN: K.NARONG, K.SUPAPORN

#### Sample description:

Quantity of sample:

Sample description:

Date sample received:

Date information received:

One (1) set

Wooden toy

July 18, 2018

August 21, 2018

#### **Client Information:**

One (1) set of submitted sample said to be MINI BULLDOZER

Item Name: MINI BULLDOZER

Item Number: 5441





BKKH18009465

#### **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** 

adtdz

Ladtaka Wongwiboonporn

Laboratory Manager

**Hardlines Department** 

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Conclusion.		
Tested samples	<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	Pass
	other than textile materials	
	U.S. ASTM F963-16 for Heavy elements Test	Pass
	Standard - U.S. CFR title 16	
	(CPSC regulations)	Pass
	Part 1303 total Lead content	
	<u>Standard</u>	_
	U.S. Consumer product safety improvement	Pass
	Act 2008(H.R. 4040) Title I, Section 101	
	For total lead content in surface coating	
	HS Comment of the Comment	Dace
	U.S. Consumer product safety improvement	Pass
	Act 2008(H.R. 4040) Title I, Section 101  For total lead content in non-surface coating material (substra	nto)
	For total lead content in non-surface coating material (substite	alej
	U.S. Consumer product safety improvement	Pass
	Act 2008(H.R. 4040) Title I, Section 108	
	Requirement on phthalates	
	Phthalate Content Requirement base	Pass
	on the California Proposition 65	
	Illinois Lead Poisoning Prevention	Pass
	Act 410 ILCS 45 section 6 (public act 095-1019)	
	"	

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.

Components	Report No.	<u>Date</u>
ASTM F963-16: Heavy metal		
GRAY COATING ON WOOD	BKKH17014798	Dec 06, 2017
YELLOW COATING ON WOOD	BKKH18008771	Jul 12, 2018
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
ORANGE COATING ON WOOD	BKKH18010022	Aug 03, 2018
Lead in surface coating		
GRAY COATING ON WOOD	BKKH17014798	Dec 06, 2017
YELLOW COATING ON WOOD	BKKH18008771	Jul 12, 2018
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
ORANGE COATING ON WOOD	BKKH18010022	Aug 03, 2018
Phthalate content		
GRAY COATING ON WOOD	BKKH17014798	Dec 06, 2017
YELLOW COATING ON WOOD	BKKH18008771	Jul 12, 2018
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
ORANGE COATING ON WOOD	BKKH18010022	Aug 03, 2018

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Test conducted:

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

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

Age group for testing: For age 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

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



NSC-TISI-TIS 17025

**TESTING 0417** 

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### Test conducted:

<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
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	Р
6	Instructional literature	Р
7	Producer's markings	
	- name of producer (toy and package)	Yes
	- address (package)	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: July 18, 2018 to July 23, 2018

### 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: July 18, 2018 to July 23, 2018

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Test conducted:

### 3 <u>Heavy Elements Analysis</u>

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> mg/kg	_	<u>LOD</u> mg/k		<u>Limit mg/kg</u>
	(1)	(2)	(3)	(4)		<u></u>	•
Sol. Barium (Ba)	103	<5	10	ND	1	5	1000
Sol. Lead (Pb)	ND	<5	ND	ND	1	5	90
Sol. Cadmium (Cd)	ND	ND	ND	ND	1	5	75
Sol. Antimony (Sb)	ND	ND	ND	ND	2	5	60
Sol. Selenium (Se)	ND	ND	ND	ND	1	5	500
Sol. Chromium (Cr)	ND	ND	ND	ND	2	5	60
Sol. Mercury (Hg)	ND	ND	ND	ND	1	5	60
Sol. Arsenic (As)	ND	ND	ND	ND	2	5	25

Remark: Sol. = Soluble

mg/kg = Milligram per kilogram based on weight of sample; = ppm = Parts per million<math>LOQ = Limit of Detection LOQ = Limit of Quantitation

ND = Not detected (Less than LOD) <= Less than

### Tested components:

(1) =	GRAY COATING ON WOOD	Refer	BKKH17014798
(2) =	YELLOW COATING ON WOOD	Refer	BKKH18008771
(3) =	WHITE COATING ON WOOD	Refer	BKKH18008771
(4) =	ORANGE COATING ON WOOD	Refer	BKKH18010022

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









Number: BKKH18009465

#### Test conducted:

### Total Lead (Pb) Content

As per clause 4.3.5.1(1) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-11 and 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

Tostad Component	<u>Result</u>	<u>LOD LOQ</u>	<u>Limit</u>
<u>Tested Component</u>	mg/kg	(mg/kg) (mg/kg)	(mg/kg)
(1)	ND	2 13	90
(2)	<13	2 13	90
(3)	<13	2 13	90
(4)	ND	2 13	90

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

> LOD = Limit of Detection LOQ = Limit of Quantitation

ND = Not detected (Less than LOD) Less than

### Tested components:

(1) =	GRAY COATING ON WOOD	Refer	BKKH17014798
(2) =	YELLOW COATING ON WOOD	Refer	BKKH18008771
(3) =	WHITE COATING ON WOOD	Refer	BKKH18008771
(4) =	ORANGE COATING ON WOOD	Refer	BKKH18010022





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Number: BKKH18009465

#### Test conducted:

### 4 <u>Total Lead (Pb) content</u> <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.

Tested component	Result %	LOD %	<u>LOQ %</u>	<u>Limit %</u>
(1)	ND	0.0002	0.0013	0.0090
(2)	<0.0013	0.0002	0.0013	0.0090
(3)	<0.0013	0.0002	0.0013	0.0090
(4)	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) =	GRAY COATING ON WOOD	Refer	BKKH17014798
(2) =	YELLOW COATING ON WOOD	Refer	BKKH18008771
(3) =	WHITE COATING ON WOOD	Refer	BKKH18008771
(4) =	ORANGE COATING ON WOOD	Refer	BKKH18010022

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Number: BKKH18009465

#### 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.

Tested component	<u>Result</u>	<u>LOD</u>	<u>LOQ</u>	Limit mg/kg
	mg/kg	mg/kg	mg/kg	
(1)	ND	2	13	90
(2)	<13	2	13	90
(3)	<13	2	13	90
(4)	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) =	GRAY COATING ON WOOD	Refer BKKH17014798
(2) =	YELLOW COATING ON WOOD	Refer BKKH18008771
(3) =	WHITE COATING ON WOOD	Refer BKKH18008771
(4) =	ORANGE COATING ON WOOD	Refer BKKH18010022

\*





The results relate only to the item tested.



Number: BKKH18009465

#### Test conducted:

#### Phthalate content 6

As per CPSC-CH-C1001-09.3:2010 and U.S. Consumer Product Safety Improvement Act 2008 (H.R. 4040), Title I, Section 108 requirement on Phthalates, solvent extraction method was used and Phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

			Result		<u>LOD</u>	LOQ	<u>Limit</u>	<u>NPR</u>
			(%, w/w)		(%, w/w)	(%, w/w)	(%, w/w)	(%, w/w)
	(1)	(2)	(3)	(4)				
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	0.1	
Di-iso-decyl Phthalate (DIDP)	ND	ND	ND	ND	0.0015	0.0090	0.1	
Di-isobutyl phthalate (DIBP) ▲	ND	ND	ND	ND	0.0015	0.0090		0.1
Di-n-pentyl phthalate (DPENP) ▲	ND	ND	ND	ND	0.0015	0.0090		0.1
Di-n-hexyl phthalate (DHEXP) ▲	ND	ND	ND	ND	0.0015	0.0090		0.1
Di-cyclohexyl phthalate (DCHP) ▲	ND	ND	ND	ND	0.0015	0.0090		0.1
Diisooctyl phthalate (DIOP) ▲	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 Percentage weight by weight %, w/w

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:

<b>(1)</b> =	GRAY COATING ON WOOD	Refer	BKKH17014798
(2) =	YELLOW COATING ON WOOD	Refer	BKKH18008771
(3) =	WHITE COATING ON WOOD	Refer	BKKH18008771
(4) =	ORANGE COATING ON WOOD	Refer	BKKH18010022





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Number: BKKH18009465

#### Test conducted:

# 7 Phthalate content test 4

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

			Result		<u>LOD</u> <u>LOQ</u> <u>Limit</u>	
			<u>(%, w/w)</u>		(%, w/w) (%, w/w) (%, w/w)	)
	(1)	(2)	(3)	(4)		
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	
Dioctyl 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:

(1) =	GRAY COATING ON WOOD	Refer	BKKH17014798
(2) =	YELLOW COATING ON WOOD	Refer	BKKH18008771
(3) =	WHITE COATING ON WOOD	Refer	BKKH18008771
(4) =	ORANGE COATING ON WOOD	Refer	BKKH18010022





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Number: BKKH18009465

#### Test conducted:

### 8 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

Tested component	<u>Result</u>	<u>LOD</u> <u>LOQ</u>	<u>Limit</u>
	mg/kg	mg/kg mg/kg	mg/kg
(1)	ND	2 13	90
(2)	<13	2 13	90
(3)	<13	2 13	90
(4)	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)	=	GRAY COATING ON WOOD	Refer	BKKH17014798
(2)	=	YELLOW COATING ON WOOD	Refer	BKKH18008771
(3)	=	WHITE COATING ON WOOD	Refer	BKKH18008771
(4)	=	ORANGE COATING ON WOOD	Refer	BKKH18010022

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

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