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The results relate only to the item tested.



Number: BKKH18016213

Date: Dec 28, 2018

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: One (1) set
Sample description: Wooden toy

Date sample received: November 30, 2018
Date information received: December 26, 2018

#### **Client Information:**

One (1) set of submitted sample said to be CREATIVE SAND PLAY

Item Name: CREATIVE SAND PLAY

Item Number: 5804



### **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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**Tested samples** <u>Standard</u> Result Submitted sample U.S. ASTM F963-17 for Physical and mechanical tests **Pass** excluding labeling requirement of clause 5 U.S. ASTM F963-17 for Flammability test of materials **Pass** other than textile materials U.S. ASTM F963-16 and ASTM F963-17 **Pass** for Heavy elements Test 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) US 16 CFR Part 1307 for Prohibition of Children's Toys **Pass** and Child Care Articles Containing Specified Phthalates **Pass** Phthalate Content Requirement base on the California Proposition 65 **Pass** Illinois Lead Poisoning Prevention

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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Act 410 ILCS 45 section 6 (public act 095-1019)



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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>	Report No.	<u>Date</u>
ASTM F963-16: Heavy metal		
GREEN SAWDUST	BKKH18001625	Feb 12, 2018
YELLOW SAWDUST	BKKH18004950	May 02, 2018
BLUE SAWDUST	BKKH18001625	Feb 12, 2018
ASTM F963-17: Heavy metal		
RED SAWDUST	BKKH18016827	Dec 25, 2018
<u>Lead in substrate</u>		
GREEN SAWDUST	BKKH18001625	Feb 12, 2018
YELLOW SAWDUST	BKKH18004950	May 02, 2018
BLUE SAWDUST	BKKH18001625	Feb 12, 2018
RED SAWDUST	BKKH18016827	Dec 25, 2018
Phthalate content		
GREEN SAWDUST	BKKH18001625	Feb 12, 2018
YELLOW SAWDUST	BKKH18004950	May 02, 2018
BLUE SAWDUST	BKKH18001625	Feb 12, 2018
RED SAWDUST	BKKH18016827	Dec 25, 2018

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#### Test conducted:

Physical And Mechanical Tests

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

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> **FHSA** <u>Parameter</u> Drop test Section 1500.52(b) 4 x 3.0 ft Torque test Section 1500.53(e) 4 in-lbf 15 lbf Tension test Section 1500.53(f) 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	NA
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	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:

<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	#
6	Instructional literature	NA
7	Producer's markings - name of producer (toy) - address (toy)	Yes No

Remark: P = Pass NA = Not applicable

▲ = Tested items are not included in the TISI Accreditation

# = No final packaging was provided for testing

The submitted samples were undergone the tests in accordance with clause 8.5 through clause 8.17 and 8.19 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

The producer's name was found on the toy. However as specified in clause 7.1 of ASTM F963-17, the final product or its packaging must also be marked with the address.

Testing period: November 30, 2018 to December 17, 2018

## 2 Flammability Test

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: November 30, 2018 to December 17, 2018

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#### Test conducted:

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

As per clause 4.3.5.2(2)(b) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-16 and F963-17<sup>♣</sup>, acid extraction method was used and heavy elements migration content were determined by ICP-OES analysis.

			Result		<u>LOD</u>	<u>LOQ</u>	Limit mg/kg
			mg/kg		mg/kg	mg/kg	
	(1)	(2)	(3)	(4)			
Sol. Barium (Ba)	<5	<5	ND	<5	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 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) =	GREEN SAWDUST		Refer	BKKH18001625
(2) =	YELLOW SAWDUST		Refer	BKKH18004950
(3) =	RED SAWDUST		Refer	BKKH18016827
(4) =	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 4.3.5.2(2)(a) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-16 and 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

Tested Component	<u>Result</u>	<u>LOD</u> <u>LOQ</u>	<u>Limit</u>
	mg/kg	(mg/kg) (mg/kg)	<u>(mg/kg)</u>
(1)	<13	1 13	100
(2)	ND	1 13	100
(3)	<13	1 13	100
(4)	<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 items are not included in the TISI Accreditation

## Tested components:

(1) =	GREEN SAWDUST	Refe	er BKKH18001625
(2) =	YELLOW SAWDUST	Refe	er BKKH18004950
(3) =	RED SAWDUST	Refe	er BKKH18016827
(4) =	BLUE SAWDUST	Refe	er BKKH18001625

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Test conducted:

4 <u>Total lead (Pb) content in substrate material- non-metal children's product</u>

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. 

2

Tested component	<u>Result</u>	<u>LOD</u> <u>L</u>	<u>.00</u>	Limit mg/kg
	mg/kg	mg/kg m	g/kg	
(1)	<13	1	13	100
(2)	ND	1	13	100
(3)	<13	1	13	100
(4)	<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) = GREEN SAWDUST
 Refer
 BKKH18001625

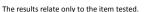
 (2) = YELLOW SAWDUST
 Refer
 BKKH18004950

 (3) = RED SAWDUST
 Refer
 BKKH18016827

 (4) = BLUE SAWDUST
 Refer
 BKKH18001625



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#### Test conducted:

#### 5 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. 2

			Result		<u>LOD</u>	LOQ	(16CFR1307)	<u>NPR</u>
			(%, w/w)		(%, w/w)	(%, w/w)	<u>Limit (%, w/w)</u>	(%, 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		
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) <sup>▲</sup>	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Di-cyclohexyl phthalate (DCHP) <sup>▲</sup>	ND	ND	ND	ND	0.0015	0.0030	0.1	0.1
Diisooctyl phthalate (DIOP) <sup>▲</sup>	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 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:

(1) =	GREEN SAWDUST	Refer	BKKH18001625
(2) =	YELLOW SAWDUST	Refer	BKKH18004950
(3) =	RED SAWDUST	Refer	BKKH18016827
(4) =	BLUE SAWDUST	Refer	BKKH18001625

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#### Test conducted:

## 6 Phthalate content test ▲

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) =	GREEN SAWDUST		Refer	BKKH18001625
(2) =	YELLOW SAWDUST		Refer	BKKH18004950
(3) =	RED SAWDUST		Refer	BKKH18016827
(4) =	BLUE SAWDUST		Refer	BKKH18001625





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Test conducted:

## 7 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.

## II <u>Non-surface coating material (substrate)</u>

Tested component	<u>Result</u>	<u>LOD</u>	<u>LOQ</u>	<u>Limit</u>
	mg/kg	mg/kg	mg/kg	mg/kg
(1)	<13	1	13	100
(2)	ND	1	13	100
(3)	<13	1	13	100
(4)	<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:

(1)	=	GREEN SAWDUST		Refer	BKKH18001625
(2)	=	YELLOW SAWDUST		Refer	BKKH18004950
(3)	=	RED SAWDUST		Refer	BKKH18016827
(4)	=	BLUE SAWDUST		Refer	BKKH18001625

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

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