



75047-1011

**TEST REPORT**

**Applicant:** RESOURCE INTERNATIONAL MARKETING LTD  
FLAT 711 7/F ELITE INDL CTR  
883 CHEUNG SHA WAN RD  
CHEUNG SHA WAN KLN  
HK  
**Attn:** HOMER YUK

**Number:** HKGH02284524**Date:** Jun 05, 2018

Submitted sample said to be	:	
Item Name	:	<b>Bob Ross Paint By Numbers</b>
Quantity	:	<b>4 sets</b>
Labelled Age Group	:	<b>Not specified</b>
Packaging Provided	:	<b>No</b>

.....

For and on behalf of :  
Intertek Testing Services HK Ltd.

Angel Y.F. Cheung  
Vice President



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### Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

<u>Requirement</u>	<u>Result</u>
(1) U.S. ASTM F963-17 - Physical and Mechanical tests excluding art materials requirements of section 4.29 and labeling requirements of section 5, 6 and 7	Pass
(2) ASTM F963-17 - Flammability Test of Materials other than textile materials	Pass
(3) ASTM F963-17 - Soluble heavy elements test	Pass
(4) ASTM F963-17 - Total Lead content	Pass
(5) U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in non-surface coating materials (substrate)	Pass
(6) U.S. CFR Title 16 (CPSC Regulations) - Part 1303 - Total Lead content in surface coating	Pass
U.S. Consumer Product Safety Improvement Act 2008 Title I Section 101 - Total Lead content in surface coating	Pass
(7) Illinois Lead Poisoning Prevention Act 410 ILCS 45 - Total Lead content	Pass
(8) California Proposition 65 for toys, Consent Judgement no. RG-356892 - Lead content	Pass
(9) U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 108 - Phthalate content	Pass
(10) California Proposition 65 for Toys (designed for or reasonable used by children under six years of age), Consent judgment no. BG-350969 - Phthalate content	Pass

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<u>Requirement</u>	<u>Result</u>
(11) US CPSC 16 CFR Part 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates effective from April 25, 2018 - Phthalate content	Pass
(12) Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 section 21 with amendment SOR/2016-195 and SOR/2016-302 - Celluloid or Cellulose nitrate	Pass
(13) Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 with amendment SOR/2016-195 and SOR/2016-302 - Mechanical and physical test	Pass
(14) Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 section 23 with amendments SOR/2016-195 - Toxic elements test	Pass
(15) Phthalates Regulations SOR/2016-188 Section 2 & 3(1) - Phthalate content	Pass
(16) Canada Products Containing Mercury Regulations SOR/2014-254 - Total Mercury Content	Pass
(17) EN71-1: 2014 - Mechanical and Physical Properties excluding labelling requirement of clause 7	Pass
(18) EN71-2 : 2011 + A1 : 2014 - Flammability Test excluding flammability test on liquid	Pass
(19) EN71-3 : 2013 + A1:2014 - Migration of certain elements	Pass
EN71-3 : 2013 + A2:2017 - Migration of certain elements	Pass
(20) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52 & amendment no. 552/2009 - Phthalates content	Pass

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<u>Requirement</u>	<u>Result</u>
(21) REACH Regulation (EC) No.1907/2006 , Annex XVII Item 23 & amendment No. 2016/217 - Cadmium content requirement	Pass
(22) Australian/New Zealand Standard AS/NZS 8124.1: 2016 - Mechanical and Physical Tests excluding labeling requirements of Annex B	Pass
(23) Australian/New Zealand Standard AS/NZS 8124.2: 2016 - Flammability test excluding flammability test on liquid	Pass
(24) AS/NZS ISO 8124-3:2003 (Australian Trade Practice Act 1974 with Consumer Protection Notice no. 1, 2009 - Consumer Product Safety Standard for Lead and certain elements in children's toys.) - Toxic elements test	Pass
Australian Customs Notice no. 2007/46 - amendments to the Customs (Prohibited Imports) Regulations 1956 Schedule 2 Item 2 - Toxic elements test	Pass
AS/NZS 8124-3:2012/Amdt 1:2016 - Toxic elements test	Pass
(25) Australian Competition and Consumer Act 2010 with Consumer Protection Notice No. 11, 2011 - Permanent ban on children's products with Diethylhexyl Phthalate (DEHP)	Pass
(26) REACH Regulation (EC) No. 1907/2006, Annex XVII Item 20 & amendment (EU) No. 276/2010 - Organotin content requirement	Pass
(27) REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 Annex XVII Item 50 - Polycyclic aromatic hydrocarbons content	Pass

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### (1) Physical and Mechanical Tests

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

Age group for testing : For Ages Over 7 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
Compression test	Section 1500.53(g)	30 lbf
Drop Test	Section 1500.53(b)	4 x 3.0 ft
Tension test	Section 1500.53(f)	15 lbf
Torque test	Section 1500.53(e)	4 in-lbf

Clause	Requirement	Assessment
4.1	Material quality	P
4.5	Sound producing toys	NA
4.6.1	Toys intended for children under 36 months of age	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	Projection	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 overload requirement	NA
4.16	Confined spaces	NA
4.17	Wheels, tires, and axles (96 months of age or less)	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
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	#1
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	Hemispherical shaped objects	NA
4.37	Yo Yo elastic tether toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding materials	NA



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Clause	Requirement	Assessment
4.41	Toy chests	NA
5	Labeling requirements	#2
6	Instructional literature	#2
7	Producer's marking	#2

Abbreviation : P = Pass NA = Not Applicable

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

## Remark(s):

#1 = No conformity statement or warning for art material was found. Applicant shall ensure that the art material meet the toxicological review (LHAMA) and applicable warning requirement.

#2 = As requested by applicant, the labeling requirement in section 5, 6 and 7 was not assessed.

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 21, 2018

### (2) Flammability Tests

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

Sample	Ignition point	Burn length (inch)	Time (sec)	Burn Rate (inch/sec)	Limit (inch/sec)
brush	Top	0.5	23	0.02	0.10

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

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 21, 2018

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### (3) Heavy Elements Analysis

Test Method : Sections 8.3.2, 8.3.3, 8.3.4 and 8.3.5 of the ASTM Standard Consumer Safety Specification for Toy Safety F963-17, acid extraction and analysed by Inductively Coupled Argon Plasma Spectrometry.

Materials other than modelling clay:

	Result (ppm)			Limit (ppm)
	(1)	(2)	(3)	
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (ppm)			Limit (ppm)
	(4)	(5)	(6)	
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (ppm)			Limit (ppm)
	(7)	(8)	(9)	
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

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	Result (ppm)		Limit (ppm)
	(10)	(11)	
Soluble Barium (Ba)	<5	<5	1000
Soluble Lead (Pb)	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	75
Soluble Antimony (Sb)	<5	<5	60
Soluble Selenium (Se)	<5	<5	500
Soluble Chromium (Cr)	<5	<5	60
Soluble Mercury (Hg)	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	25

ppm = parts per million = mg/kg

### Tested Components:

- (1) Black wet paint.
- (2) White wet paint.
- (3) Red wet paint.
- (4) Yellow wet paint.
- (5) Brown wet paint.
- (6) Green wet paint.
- (7) Blue wet paint.
- (8) Transparent lacquer on wood (body of paint brush).
- (9) Transparent plastic (cover of paint brush).
- (10) Translucent plastic (container).
- (11) Orange brush (paint brush).

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 28, 2018

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### (4) Total Lead (Pb) Content

Test Method : Sections 4.3.5.1(1) and 4.3.5.2(2)(a) of the ASTM Standard Consumer Safety Specification for Toy Safety F963-17, CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 or/and CPSC-CH-E1003-09.1, analysed by Inductively Coupled Argon Plasma Spectrometry.

#### Coating:

Tested Component	Result in ppm	Limit in ppm
(1/2/3)	<20	90
(4/5/6)	<20	90
(7)	<20	90
(8)	<20	90

#### Substrate:

Tested Component	Result in ppm	Limit in ppm
(9/10/11)	<20	100

ppm = parts per million = mg/kg

#### Tested Components:

- (1) Black wet paint.
- (2) White wet paint.
- (3) Red wet paint.
- (4) Yellow wet paint.
- (5) Brown wet paint.
- (6) Green wet paint.
- (7) Blue wet paint.
- (8) Transparent lacquer on wood (body of paint brush).
- (9) Transparent plastic (cover of paint brush).
- (10) Translucent plastic (container).
- (11) Orange brush (paint brush).

Date sample received : Apr 18, 2018

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**(5) Total Lead (Pb) Content in Non-Surface Coating Materials (Substrate)**

Test Method : Standard Operating Procedures for Determining Total Lead (Pb) in Children's Products, test methods CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001.08.3, analysed by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in ppm	Limit in ppm
(1/2/3)	<20	100
(4)	<20	100

ppm = parts per million = mg/kg

**Tested Components:**

- (1) Transparent plastic (cover of paint brush).
- (2) Translucent plastic (container).
- (3) Orange brush (paint brush).
- (4) Silver color metal (holder of paint brush).

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 28, 2018

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**(7) Total Lead (Pb) content**

Test Method : Illinois Lead Poisoning Prevention Act 410 ILCS 45, acid digestion method and analysed by Inductively Coupled Argon Plasma Spectrometry.

**Coating:**

Tested Component	Result in %, w/w	Limit in %, w/w
(1/2/3)	<0.0020	0.009
(4/5/6)	<0.0020	0.009
(7)	<0.0020	0.009

**Substrate:**

Tested Component	Result in %, w/w	Limit in %, w/w
(8/9/10)	<0.0020	0.010

Warning statement limit for coating = 0.0040%

**Tested Components:**

- (1) Black wet paint.
- (2) White wet paint.
- (3) Red wet paint.
- (4) Yellow wet paint.
- (5) Brown wet paint.
- (6) Green wet paint.
- (7) Transparent lacquer on wood (body of paint brush).
- (8) Transparent plastic (cover of paint brush).
- (9) Translucent plastic (container).
- (10) Orange brush (paint brush).

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 28, 2018

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**(8) Total Lead (Pb) content**

Test Method : Acid digestion and analysed by Inductively Coupled Argon Plasma Spectrometry.

## Coating:

Tested Component	Result in %, w/w	Limit in %, w/w
(1/2/3)	<0.0020	0.009
(4/5/6)	<0.0020	0.009
(7)	<0.0020	0.009
(8)	<0.0020	0.009

## Substrate:

Tested Component	Result in %, w/w	Limit in %, w/w
(9/10/11)	<0.0020	0.010

The above limit was quoted from the Consent Judgement no. RG-356892 settled by Superior Court of the State of California for the County of Alameda, for toys based on the California Proposition 65.

## Tested Components:

- (1) Black wet paint.
- (2) White wet paint.
- (3) Red wet paint.
- (4) Yellow wet paint.
- (5) Brown wet paint.
- (6) Green wet paint.
- (7) Blue wet paint.
- (8) Transparent lacquer on wood (body of paint brush).
- (9) Transparent plastic (cover of paint brush).
- (10) Translucent plastic (container).
- (11) Orange brush (paint brush).

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 28, 2018

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### (9) Phthalate Content Test

**Test Method** : Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.3 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

#### Six Phthalate content:

Compound	Result (% w/w)			Limit (% w/w)
	(1/2/3)	(4/5/6)	(7)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01	0.1
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01	0.1

Compound	Result (% w/w)		Limit (% w/w)
	(8)	(9/10/11)	
Dibutyl phthalate (DBP)	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	0.1
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	0.1

The above limit was quoted according to US Consumer Product Safety Improvement Act 2008 for prohibition on sale of certain products containing specified phthalates.

#### Tested Components:

- (1) Black wet paint.
- (2) White wet paint.
- (3) Red wet paint.
- (4) Yellow wet paint.
- (5) Brown wet paint.
- (6) Green wet paint.
- (7) Blue wet paint.
- (8) Transparent lacquer on wood (body of paint brush).
- (9) Transparent plastic (cover of paint brush).
- (10) Translucent plastic (container).
- (11) Orange brush (paint brush).

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 27, 2018

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### (10) Phthalate Content Test

Test Method : Solvent extraction and Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (% w/w)			Limit (% w/w)
	(1/2/3)	(4/5/6)	(7)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP)	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01	--

Compound	Result (% w/w)		Limit (% w/w)
	(8)	(9/10/11)	
Dibutyl phthalate (DBP)	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	0.1
Diisodecyl phthalate (DIDP)	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP)	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	--

The above limit was quoted from the Consent Judgment no. BG-350969 settled by superior court of the state of California for the county of Alameda, for Toys (designed for or reasonable used by children under six years of age) set based on the California Proposition 65.

#### Tested Components:

- (1) Black wet paint.
- (2) White wet paint.
- (3) Red wet paint.
- (4) Yellow wet paint.
- (5) Brown wet paint.
- (6) Green wet paint.
- (7) Blue wet paint.
- (8) Transparent lacquer on wood (body of paint brush).
- (9) Transparent plastic (cover of paint brush).
- (10) Translucent plastic (container).
- (11) Orange brush (paint brush).

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 27, 2018

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### (11) Phthalate Content Test

Test Method : Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.3 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Compound	Result (% w/w)			Limit (% w/w)
	(1/2/3)	(4/5/6)	(7)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01	0.1
Diisobutyl phthalate (DIBP)	<0.01	<0.01	<0.01	0.1
Di-n-pentyl phthalate (DPP) / (DPENP)	<0.01	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP) / (DHEXP)	<0.01	<0.01	<0.01	0.1
Dicyclohexyl phthalate (DCHP)	<0.01	<0.01	<0.01	0.1

Compound	Result (% w/w)		Limit (% w/w)
	(8)	(9/10/11)	
Dibutyl phthalate (DBP)	<0.01	<0.01	0.1
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	0.1
Benzyl butyl phthalate (BBP)	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	0.1
Diisobutyl phthalate (DIBP)	<0.01	<0.01	0.1
Di-n-pentyl phthalate (DPP) / (DPENP)	<0.01	<0.01	0.1
Di-n-hexyl phthalate (DNHP) / (DHEXP)	<0.01	<0.01	0.1
Dicyclohexyl phthalate (DCHP)	<0.01	<0.01	0.1



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The above limits are quoted from Federal Register, Vol. 82, No. 207, October 27, 2017, Rules and Regulations, Final rule for 16 CFR Part 1307 "Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates" effective from April 25, 2018.

### Tested Components:

- (1) Black wet paint.
- (2) White wet paint.
- (3) Red wet paint.
- (4) Yellow wet paint.
- (5) Brown wet paint.
- (6) Green wet paint.
- (7) Blue wet paint.
- (8) Transparent lacquer on wood (body of paint brush).
- (9) Transparent plastic (cover of paint brush).
- (10) Translucent plastic (container).
- (11) Orange brush (paint brush).

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 27, 2018

### (12) Cellulose Nitrate and Celluloid

Test Standard : Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 section 21 with amendment SOR/2016-195 and SOR/2016-302

	<u>Assessment</u>	<u>Requirements</u>
Cellulose Nitrate / Celluloid	Absent	Absent

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 21, 2018

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### (13) Physical and Mechanical Tests

Test Standard : Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 with amendment SOR/2016-195 and SOR/2016-302

Age group for testing : For Ages Over 7 Years

The submitted samples were undergone the use and abuse tests in accordance with the Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 with amendment SOR/2016-195 and SOR/2016-302:

Test	Parameter
Drop test	4 x (0.909 +/- 0.005) m
Pull test	42.5 +/- 2 N
Push test	42.5 +/- 2 N

Clause	Requirement	Assessment
3	General - English and French Bilingual Statement	NA
4	Packaging	NA
5	Electrically operated toys	NA
6	Electrically heated toys	NA
7	Small parts	NA
8	Metal edges	NA
9	Wire Frames	NA
10	Plastic Edges	P
11	Wooden Surfaces, Edges and Corners	P
12	Glass	NA
13	Fasteners	NA
14	Folding Mechanisms, Bracket or Bracing	NA
15	Spring-Wound Driving Mechanism	NA
16	Projectile Components	NA
17	Toys which a child can enter and which can be closed by a lid or door	NA
18	Stationary toy that is intended to bear the weight of a child	NA
19	Noise limit	NA
20	Heated surfaces, parts or substances	NA
28	Fastening to attach parts, Clothing or Ornamentation	NA
29	Stuffing Materials	NA
	(a) Clean and free from vermin	NA
	(b) Free from Hard and Sharp Foreign Matter	NA
30	Small parts - Squeaker, Reed, Valve or other similar device	NA
31	Eyes or nose	NA
35	Plant seeds for making noise	NA
36	Plant seeds for stuffing material	NA



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## TEST REPORT

Number : HKGH02284524

Clause	Requirement	Assessment
37	Pull and Push Toys that has a shaft-like handle	NA
38	Toy Steam Engines Boilers	NA
39	Finger Paints	NA
40	Rattle	NA
41	Elastic	NA
42	Yo-Yo Type Balls	NA
	(a) Stretchable cord	NA
	(b) Similar product	NA

Abbreviation : P = Pass NA = Not Applicable

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 21, 2018

### (14) Toxic Elements Analysis

Test Method : Acid digestion and extraction methods were used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

	Result (mg/kg)			Limit (mg/kg)
	(1/2/3)	(4/5/6)	(7)	
Total Lead (Pb)	<10	<10	<10	90
Total Mercury (Hg)	ND	ND	ND	ND
Sol. Cadmium (Cd)	<10	<10	<10	1000
Sol. Antimony (Sb)	<10	<10	<10	1000
Sol. Selenium (Se)	<10	<10	<10	1000
Sol. Arsenic (As)	<10	<10	<10	1000
Sol. Barium (Ba)	<10	<10	<10	1000

	Result (mg/kg)	Limit (mg/kg)
	(8)	
Total Lead (Pb)	<10	90
Total Mercury (Hg)	ND	ND
Sol. Cadmium (Cd)	<10	1000
Sol. Antimony (Sb)	<10	1000
Sol. Selenium (Se)	<10	1000
Sol. Arsenic (As)	<10	1000
Sol. Barium (Ba)	<10	1000



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## TEST REPORT

Number : HKGH02284524

Sol. : Soluble

ND : Not detected (<0.078 mg/kg)

mg/kg = milligram per kilogram

### Tested Components:

- (1) Black wet paint.
- (2) White wet paint.
- (3) Red wet paint.
- (4) Yellow wet paint.
- (5) Brown wet paint.
- (6) Green wet paint.
- (7) Blue wet paint.
- (8) Transparent lacquer on wood (body of paint brush).

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 28, 2018

### (15) Phthalate Content Test

Test Method : Standard Operating Procedure for Determining Phthalates, test method CPSC-CH-C1001-09.3 was used and phthalate content was determined by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

#### Six Phthalate content:

Compound	Result (ppm)			Limit (ppm)
	(1/2/3)	(4/5/6)	(7)	
Dibutyl phthalate (DBP)	<100	<100	<100	1000
Diethyl hexyl phthalate (DEHP)	<100	<100	<100	1000
Benzyl butyl phthalate (BBP)	<100	<100	<100	1000
Diisononyl phthalate (DINP)	<100	<100	<100	1000
Di-n-octyl phthalate (DnOP)	<100	<100	<100	1000
Diisodecyl phthalate (DIDP)	<100	<100	<100	1000



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## TEST REPORT

Number : HKGH02284524

Compound	Result (ppm)		Limit (ppm)
	(8)	(9/10/11)	
Dibutyl phthalate (DBP)	<100	<100	1000
Diethyl hexyl phthalate (DEHP)	<100	<100	1000
Benzyl butyl phthalate (BBP)	<100	<100	1000
Diisononyl phthalate (DINP)	<100	<100	1000
Di-n-octyl phthalate (DnOP)	<100	<100	1000
Diisodecyl phthalate (DIDP)	<100	<100	1000

The above limit was quoted according to Phthalates Regulations SOR/2016-188 Section 2 & 3(1) for phthalate content on toys and child care articles.

ppm = parts per million = mg/kg

### Tested Components:

- (1) Black wet paint.
- (2) White wet paint.
- (3) Red wet paint.
- (4) Yellow wet paint.
- (5) Brown wet paint.
- (6) Green wet paint.
- (7) Blue wet paint.
- (8) Transparent lacquer on wood (body of paint brush).
- (9) Transparent plastic (cover of paint brush).
- (10) Translucent plastic (container).
- (11) Orange brush (paint brush).

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 27, 2018

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**TEST REPORT**

Number : HKGH02284524

**(16) Total Mercury (Hg) Content**

Test Method : Canada Products Containing Mercury Regulations SOR/2014-254, acid digestion method and analysed by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %, w/w	Limit in %, w/w
(1/2/3)	<0.001	0.1
(4/5)	<0.001	0.1

**Tested Components:**

- (1) Transparent plastic (cover of paint brush).
- (2) Translucent plastic (container).
- (3) Orange brush (paint brush).
- (4) Brown wood (body of paint brush).
- (5) Light brown wood (easel).

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 28, 2018

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## TEST REPORT

Number : HKGH02284524

### (17) Physical and Mechanical Tests

Test Standard : European Standard on Safety of Toys EN71-1:2014

Age group for testing : For Ages Over 3 Years

Clause	Requirement	Assessment
4	General requirements	
4.1	Material cleanliness	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding Materials	NA
4.7	Edges	P
4.8	Points and Metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put into mouth	NA
4.12	Balloons	NA
4.13	Cords of toy kites and other flying toys	NA
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing non -electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo balls	NA
4.25	Toys attached to food	NA
5	Toys intended for children under 36 months	
5.1	General requirements for toys intended for children under 36 months	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically driven ride-on toys	NA



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## TEST REPORT

Number : HKGH02284524

Clause	Requirement	Assessment
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric-shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	#1

Abbreviation : P = Pass NA = Not Applicable

## Remark(s):

#1 = Clause 7 - As requested by applicant, the labelling requirement was not assessed.

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 21, 2018

### (18) Flammability Test

Test Standard : European Standard on Safety of Toys EN71-2 : 2011 + A1 : 2014

Clause	Requirement	Assessment
4.1	General	P#1
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Abbreviation : P = Pass NA = Not Applicable

## Remark(s):

#1 = Clause 4.1 - As requested by applicant, the flammability test on liquid was not assessed.

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 21, 2018



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## TEST REPORT

Number : HKGH02284524

### (19) 19 Toxic Element Migration Test

**Test Method** : Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and/or Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

**Category (II):** Liquid or sticky toy material:

	Result (mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Soluble Aluminium (Al)	<100	<100	<100	1406
Soluble Antimony (Sb)	<1.0	<1.0	<1.0	11.3
Soluble Arsenic (As)	<0.5	<0.5	<0.5	0.9
Soluble Barium (Ba)	<10	<10	<10	375
Soluble Boron (B)	<50	<50	<50	300
Soluble Cadmium (Cd)	<0.1	<0.1	<0.1	0.3
Soluble Chromium (III) (Cr III) ++	<1.0	<1.0	<1.0	9.4
Soluble Chromium (VI) (Cr VI) ++	<0.003	<0.003	<0.003	0.005
Soluble Cobalt (Co)	<1.0	<1.0	<1.0	2.6
Soluble Copper (Cu)	<10	<10	<10	156
Soluble Lead (Pb)	<0.5	<0.5	<0.5	3.4
Soluble Manganese (Mn)	<10	<10	<10	300
Soluble Mercury (Hg)	<1.0	<1.0	<1.0	1.9
Soluble Nickel (Ni)	<1.0	<1.0	<1.0	18.8
Soluble Selenium (Se)	<1.0	<1.0	<1.0	9.4
Soluble Strontium (Sr)	<100	<100	<100	1125
Soluble Tin (Sn)	<10	<10	<10	3750
Soluble Organic tin ++	<0.15	<0.15	<0.15	0.2
Soluble Zinc (Zn)	<100	<100	<100	938



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## TEST REPORT

Number : HKGH02284524

	Result (mg/kg)			Limit (mg/kg)
	(4)	(5)	(6)	
Soluble Aluminium (Al)	<100	<100	<100	1406
Soluble Antimony (Sb)	<1.0	<1.0	<1.0	11.3
Soluble Arsenic (As)	<0.5	<0.5	<0.5	0.9
Soluble Barium (Ba)	<10	<10	<10	375
Soluble Boron (B)	<50	<50	<50	300
Soluble Cadmium (Cd)	<0.1	<0.1	<0.1	0.3
Soluble Chromium (III) (Cr III) ++	<1.0	<1.0	<1.0	9.4
Soluble Chromium (VI) (Cr VI) ++	<0.003	<0.003	<0.003	0.005
Soluble Cobalt (Co)	<1.0	<1.0	<1.0	2.6
Soluble Copper (Cu)	<10	<10	<10	156
Soluble Lead (Pb)	<0.5	<0.5	<0.5	3.4
Soluble Manganese (Mn)	<10	<10	<10	300
Soluble Mercury (Hg)	<1.0	<1.0	<1.0	1.9
Soluble Nickel (Ni)	<1.0	<1.0	<1.0	18.8
Soluble Selenium (Se)	<1.0	<1.0	<1.0	9.4
Soluble Strontium (Sr)	<100	<100	<100	1125
Soluble Tin (Sn)	<10	<10	<10	3750
Soluble Organic tin ++	<0.15	<0.15	<0.15	0.2
Soluble Zinc (Zn)	<100	<100	<100	938



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## TEST REPORT

Number : HKGH02284524

	Result (mg/kg)	Limit (mg/kg)
	(7)	
Soluble Aluminium (Al)	<100	1406
Soluble Antimony (Sb)	<1.0	11.3
Soluble Arsenic (As)	<0.5	0.9
Soluble Barium (Ba)	<10	375
Soluble Boron (B)	<50	300
Soluble Cadmium (Cd)	<0.1	0.3
Soluble Chromium (III) (Cr III) ++	<1.0	9.4
Soluble Chromium (VI) (Cr VI) ++	<0.003	0.005
Soluble Cobalt (Co)	<1.0	2.6
Soluble Copper (Cu)	<10	156
Soluble Lead (Pb)	<0.5	3.4
Soluble Manganese (Mn)	<10	300
Soluble Mercury (Hg)	<1.0	1.9
Soluble Nickel (Ni)	<1.0	18.8
Soluble Selenium (Se)	<1.0	9.4
Soluble Strontium (Sr)	<100	1125
Soluble Tin (Sn)	<10	3750
Soluble Organic tin ++	<0.15	0.2
Soluble Zinc (Zn)	<100	938



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## TEST REPORT

Number : HKGH02284524

Category (III): Scraped-off toy material:

	Result (mg/kg)			Limit (mg/kg)
	(8)	(9)	(10)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III) ++	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI) ++	<0.1	<0.1	<0.1	0.2
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	160
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

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## TEST REPORT

Number : HKGH02284524

	Result (mg/kg)			Limit (mg/kg)
	(11)	(12)	(13)	
Soluble Aluminium (Al)	<300	<300	<300	70000
Soluble Antimony (Sb)	<10	<10	<10	560
Soluble Arsenic (As)	<10	<10	<10	47
Soluble Barium (Ba)	<10	<10	<10	18750
Soluble Boron (B)	<50	<50	<50	15000
Soluble Cadmium (Cd)	<5	<5	<5	17
Soluble Chromium (III) (Cr III) ++	<10	<10	<10	460
Soluble Chromium (VI) (Cr VI) ++	<0.1	<0.1	<0.1	0.2
Soluble Cobalt (Co)	<10	<10	<10	130
Soluble Copper (Cu)	<10	<10	<10	7700
Soluble Lead (Pb)	<10	<10	<10	160
Soluble Manganese (Mn)	<10	<10	<10	15000
Soluble Mercury (Hg)	<10	<10	<10	94
Soluble Nickel (Ni)	<10	<10	<10	930
Soluble Selenium (Se)	<10	<10	<10	460
Soluble Strontium (Sr)	<100	<100	<100	56000
Soluble Tin (Sn)	<10	<10	<10	180000
Soluble Organic tin ++	<2.0	<2.0	<2.0	12
Soluble Zinc (Zn)	<100	<100	<100	46000

mg/kg = milligram per kilogram



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## TEST REPORT

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++ : Unless the test results were marked with "A" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

Organic tin test result was expressed as tributyl tin.

The new lead migration limit [(2.0mg/kg for Category (I), 0.5mg/kg for category (II) and 23 mg/kg for Category (III)] was quoted from directive (EU) 2017/738 amending 2009/48/EC effective from 28 October 2018.

### Tested Components:

- (1) Black wet paint.
- (2) White wet paint.
- (3) Red wet paint.
- (4) Yellow wet paint.
- (5) Brown wet paint.
- (6) Green wet paint.
- (7) Blue wet paint.
- (8) Transparent lacquer on wood (body of paint brush).
- (9) Transparent plastic (cover of paint brush).
- (10) Translucent plastic (container).
- (11) Orange brush (paint brush).
- (12) Brown wood (body of paint brush).
- (13) Light brown wood (easel).

Date sample received : Apr 18, 2018 and May 10, 2018

Test Period : Apr 18, 2018 to May 14, 2018

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## TEST REPORT

Number : HKGH02284524

### (20) Phthalate Content Test

Test Method : EN14372, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Six Phthalate content:

Compound	Result (% w/w)			Limit (% w/w)
	(1/2/3)	(4/5/6)	(7)	
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01	--
Sum of DBP, DEHP & BBP	<0.01	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	<0.01	--
Diisodecyl phthalate (DIDP)	<0.01	<0.01	<0.01	--
Sum of DINP, DnOP & DIDP	<0.01	<0.01	<0.01	0.1

Compound	Result (% w/w)		Limit (% w/w)
	(8)	(9/10/11)	
Dibutyl phthalate (DBP)	<0.01	<0.01	--
Diethyl hexyl phthalate (DEHP)	<0.01	<0.01	--
Benzyl butyl phthalate (BBP)	<0.01	<0.01	--
Sum of DBP, DEHP & BBP	<0.01	<0.01	0.1
Diisononyl phthalate (DINP)	<0.01	<0.01	--
Di-n-octyl phthalate (DnOP)	<0.01	<0.01	--
Diisodecyl phthalate (DIDP)	<0.01	<0.01	--
Sum of DINP, DnOP & DIDP	<0.01	<0.01	0.1

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## TEST REPORT

Number : HKGH02284524

The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006 & amendment no. 552/2009 for phthalate content in toys and childcare articles.

### Tested Components:

- (1) Black wet paint.
- (2) White wet paint.
- (3) Red wet paint.
- (4) Yellow wet paint.
- (5) Brown wet paint.
- (6) Green wet paint.
- (7) Blue wet paint.
- (8) Transparent lacquer on wood (body of paint brush).
- (9) Transparent plastic (cover of paint brush).
- (10) Translucent plastic (container).
- (11) Orange brush (paint brush).

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 27, 2018

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**TEST REPORT**

Number : HKGH02284524

**(21) Cadmium (Cd) Content**

Test Method : Acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

Tested Component	Result in %, w/w	Limit in %, w/w
(1/2/3)	ND	0.01
(4/5/6)	ND	0.01
(7)	ND	0.1
(8/9/10)	ND	0.01

ND : Not detected (< 0.0005%)

**Tested Components:**

- (1) Black wet paint.
- (2) White wet paint.
- (3) Red wet paint.
- (4) Yellow wet paint.
- (5) Brown wet paint.
- (6) Green wet paint.
- (7) Transparent lacquer on wood (body of paint brush).
- (8) Transparent plastic (cover of paint brush).
- (9) Translucent plastic (container).
- (10) Orange brush (paint brush).

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 28, 2018

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## TEST REPORT

Number : HKGH02284524

### (22) Physical and Mechanical Tests

Test Standard : Australian/New Zealand Standard AS/NZS 8124.1:2016 Safety aspects related to mechanical and physical properties.

Age group for testing : For Ages Over 7 Years

The submitted samples were undergone the normal use and the following reasonable foreseeable abuse tests in accordance with the clause 5.24 of AS/NZS 8124.1: 2016 before the assessment of the relevant requirement in clause 4:

Clause	Test	Parameter
5.24.2	Drop test	4 x 93 +/- 5 cm
5.24.5	Torque test	0.45 +/- 0.02 Nm
5.24.6	Tension test	70 +/- 2 N
5.24.7	Compression test	136 +/- 2 N

Clause	Requirement	Assessment
4.1	Normal use	P
4.2	Reasonably foreseeable abuse	P
4.3	Material	P
4.4.1	Small Parts for children under 36 months	NA
4.4.2	Small part warning	NA
4.5	Shape, size and strength of certain toys	NA
4.6	Edges	P
4.7	Points	P
4.8	Projections	NA
4.9	Metal wires and rods	NA
4.10	Plastic film or plastic bags in packaging and in toys	NA
4.11	Cords and elastic	NA
4.12	Folding mechanisms	NA
4.13	Holes, clearances and accessibility of mechanisms	NA
4.14	Springs	NA
4.15	Stability and overload requirement	NA
4.16	Enclosures	NA
4.17	Simulated protective equipment, such as helmets, hats and goggles	NA
4.18	Projectile toys	NA
4.19	Rotor and propellers	NA
4.20	Aquatic toys	NA
4.21	Braking	NA
4.22	Toy bicycles	NA
4.23	Speed limitation of electrically driven ride-on toys	NA
4.24	Toys containing a heat source	NA



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## TEST REPORT

Number : HKGH02284524

Clause	Requirement	Assessment
4.25	Liquid-filled toys	NA
4.26	Mouth-actuated toys	NA
4.27	Toy roller skates and toy skateboards	NA
4.28	Percussion caps (B.2.18)	NA
4.29.	Acoustic requirements	NA
4.30.	Toy scooters	NA
4.31.	Magnets and magnetic components	NA
Annex B	Safety labelling guidelines and manufacturer's markings	#1
Annex D	Toy gun marking	NA

Abbreviation : P = Pass NA = Not Applicable

## Remark(s):

#1 = As requested by applicant, the labelling requirements as specified in Annex B was not assessed.

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 21, 2018

(23) Flammability Test

Test Standard : Australian/New Zealand Standard AS/NZS 8124.2: 2016

Clause	Requirement	Assessment
4.1	General	P#1
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in a play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys with a piled or textile surface	NA

Abbreviation : P = Pass NA = Not Applicable

Additional Information: Butane gas was used in the test burner.

## Remark(s):

#1 = As requested by applicant, the flammability test on liquid was not assessed.

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 21, 2018



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## TEST REPORT

Number : HKGH02284524

### (24) Toxic Elements Analysis

Test Method : Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

Materials other than modelling clay:

	Result (mg/kg)			Limit (mg/kg)
	(1)	(2)	(3)	
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (mg/kg)			Limit (mg/kg)
	(4)	(5)	(6)	
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (mg/kg)			Limit (mg/kg)
	(7)	(8)	(9)	
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

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## TEST REPORT

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	Result (mg/kg)			Limit (mg/kg)
	(10)	(11)	(12)	
Soluble Barium (Ba)	<5	<5	<5	1000
Soluble Lead (Pb)	<5	<5	<5	90
Soluble Cadmium (Cd)	<5	<5	<5	75
Soluble Antimony (Sb)	<5	<5	<5	60
Soluble Selenium (Se)	<5	<5	<5	500
Soluble Chromium (Cr)	<5	<5	<5	60
Soluble Mercury (Hg)	<5	<5	<5	60
Soluble Arsenic (As)	<2.5	<2.5	<2.5	25

	Result (mg/kg)	Limit (mg/kg)
	(13)	
Soluble Barium (Ba)	<5	1000
Soluble Lead (Pb)	<5	90
Soluble Cadmium (Cd)	<5	75
Soluble Antimony (Sb)	<5	60
Soluble Selenium (Se)	<5	500
Soluble Chromium (Cr)	<5	60
Soluble Mercury (Hg)	<5	60
Soluble Arsenic (As)	<2.5	25

mg/kg = milligram per kilogram

## Tested Components:

- (1) Black wet paint.
- (2) White wet paint.
- (3) Red wet paint.
- (4) Yellow wet paint.
- (5) Brown wet paint.
- (6) Green wet paint.
- (7) Blue wet paint.
- (8) Transparent lacquer on wood (body of paint brush).
- (9) Transparent plastic (cover of paint brush).
- (10) Translucent plastic (container).
- (11) Orange brush (paint brush).
- (12) Brown wood (body of paint brush).
- (13) Light brown wood (easel).

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 28, 2018



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## TEST REPORT

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### (25) Diethylhexyl Phthalate (DEHP) Content

Test Method : Australian Competition and Consumer Act 2010 with Consumer Protection Notice No. 11, 2011, by solvent extraction and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Tested Component	Result in %, w/w	Limit in %, w/w
(1/2/3)	<0.01	1
(4/5/6)	<0.01	1
(7)	<0.01	1
(8)	<0.01	1

The above limit was quoted according to Australian Competition and Consumer Act 2010 with Consumer Protection Notice No. 11, 2011 on Diethylhexyl Phthalate (DEHP) for children's products

#### Tested Components:

- (1) Black wet paint.
- (2) White wet paint.
- (3) Red wet paint.
- (4) Yellow wet paint.
- (5) Brown wet paint.
- (6) Green wet paint.
- (7) Blue wet paint.
- (8) Transparent lacquer on wood (body of paint brush).

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 27, 2018

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## TEST REPORT

Number : HKGH02284524

### (26) Organotin Content

Test Method : By solvent extraction, followed by Gas Chromatography Mass Spectrometric (GC/MS) analysis.

Compounds	Result (% w/w) of tin					Requirement (% w/w) of tin
	(1/2/3)	(4/5/6)	(7)	(8)	(9/10/11)	
Tri-substituted organotin <sup>^</sup>	<0.005	<0.005	<0.005	<0.005	<0.005	0.1
Dibutyltin (DBT)	<0.005	<0.005	<0.005	<0.005	<0.005	0.1
Dioctyltin (DOT)	<0.005	<0.005	<0.005	<0.005	<0.005	0.1

Remark : The above limit was quoted according to Annex XVII Items 20 of the REACH Regulation (EC) no. 1907/2006 & amendment (EU) No. 276/2010 (formerly known as Decision 2009/425/EC) for organotin content.

Remark : Detection limit = 0.005% (w/w) of tin

<sup>^</sup> = The reported value was calculated by summation of the values of Tri-butyltin, Tri-phenyltin, Tri-methyltin, Tri-octyltin, Tri-cyclohexyltin

#### Tested Components :

- (1) Black wet paint .
- (2) White wet paint .
- (3) Red wet paint .
- (4) Yellow wet paint .
- (5) Brown wet paint .
- (6) Green wet paint .
- (7) Blue wet paint .
- (8) Transparent lacquer on wood (body of paint brush) .
- (9) Transparent plastic (cover of paint brush) .
- (10) Translucent plastic (container) .
- (11) Orange brush (paint brush) .

Date sample received : Apr 18, 2018

Testing period : Apr 18, 2018 to May 30, 2018

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## TEST REPORT

Number : HKGH02284524

### (27) Polycyclic Aromatic Hydrocarbons (PAH) Content

Test Method : Solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

Compound	Result (ppm)			Limit (ppm)
	(1/2/3)	(4/5/6)	(7)	
Benzo(a)pyrene	<0.10	<0.10	<0.10	0.5
Benzo(e)pyrene	<0.10	<0.10	<0.10	0.5
Benzo(a)anthracene	<0.10	<0.10	<0.10	0.5
Chrysene	<0.10	<0.10	<0.10	0.5
Benzo(b)fluoranthene	<0.10	<0.10	<0.10	0.5
Benzo(j)fluoranthene	<0.10	<0.10	<0.10	0.5
Benzo(k)fluoranthene	<0.10	<0.10	<0.10	0.5
Dibenzo(a,h)anthracene	<0.10	<0.10	<0.10	0.5

Compound	Result (ppm)		Limit (ppm)
	(8)	(9/10/11)	
Benzo(a)pyrene	<0.10	<0.10	0.5
Benzo(e)pyrene	<0.10	<0.10	0.5
Benzo(a)anthracene	<0.10	<0.10	0.5
Chrysene	<0.10	<0.10	0.5
Benzo(b)fluoranthene	<0.10	<0.10	0.5
Benzo(j)fluoranthene	<0.10	<0.10	0.5
Benzo(k)fluoranthene	<0.10	<0.10	0.5
Dibenzo(a,h)anthracene	<0.10	<0.10	0.5

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The above limit was quoted according to Annex XVII Items 50 of the REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 for polycyclic aromatic hydrocarbons (PAH).

ppm = parts per million = mg/kg

**Tested Components:**

- (1) Black wet paint.
- (2) White wet paint.
- (3) Red wet paint.
- (4) Yellow wet paint.
- (5) Brown wet paint.
- (6) Green wet paint.
- (7) Blue wet paint.
- (8) Transparent lacquer on wood (body of paint brush).
- (9) Transparent plastic (cover of paint brush).
- (10) Translucent plastic (container).
- (11) Orange brush (paint brush).

Date sample received : Apr 18, 2018

Test Period : Apr 18, 2018 to Apr 30, 2018

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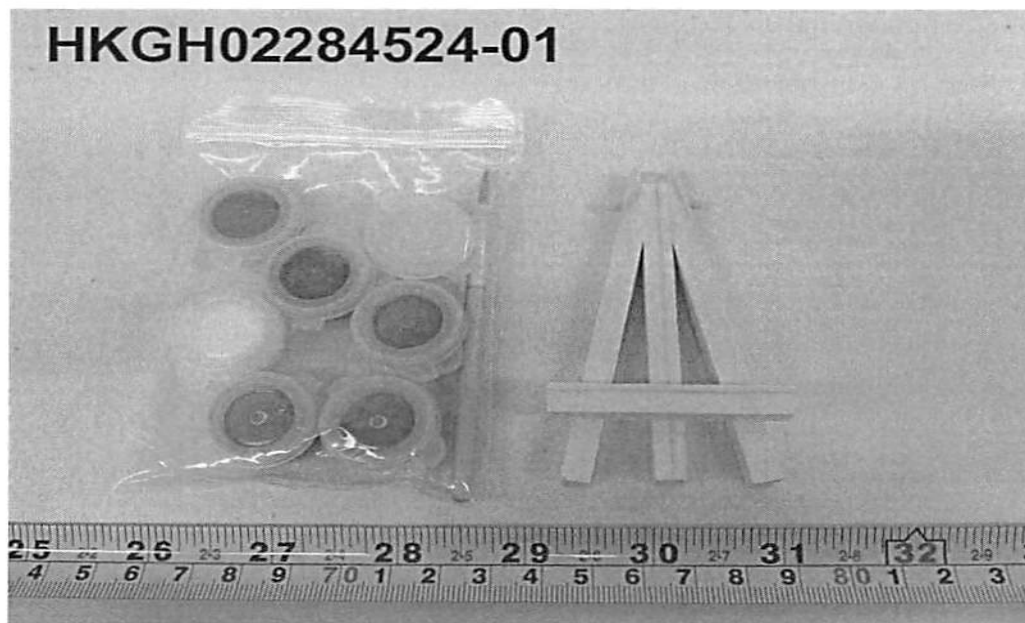
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## TEST REPORT

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End of report

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