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Application ID JA0017504(6)

Applicant The Pencil Grip.Inc.

21200 Superior St. Suite A Chatsworth, CA 91311

Sample One (1) group of submitted sample(s) stated to be:

> Sample Description Magic Stix

Sample/Style No. TPG-392, TPG-394

Country of Origin China

believable service with Unlimited care Country of Destination **USA** and Canada Labeled Age Grade Not specified

Age Grade for testing

Date of Receiving : 2019-3-14

2019-3-27 to 2019-3-29 Testing Period

*******FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)*******

SIGN FOR AND ON BEHALF OF UNITEC LABORATORY SERVICES (DONGGUAN) LTD.

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LABORATORY MANAGER

This is to supersede report no. RA0020516(3) date 2 May, 2019.



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TES	ST REQUEST	RESULT
	AS REQUESTED BY THE APPLICANT, TO PERFORM MECHANICAL AND PHYSICAL TEST(S)	
A)	OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH U.S. CFR TITLE 16 (CPSC REGULATIONS), PART 1500.50.	PASS
B)	AS REQUESTED BY THE APPLICANT, TO PERFORM FLAMMABILITY TEST(S) OF SUBMITTED	PASS
Б)	SAMPLE(S) IN ACCORDANCE WITH U.S. CFR TITLE 16 (CPSC REGULATIONS), PART 1500.44.	1 700
	AS REQUESTED BY THE APPLICANT, TO DETERMINE TOTAL LEAD CONTENT IN THE	
C)	SUBSTRATE OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH U.S. CONSUMER PRODUCT	PASS
()	SAFETY IMPROVEMENT ACT OF 2008, SECTION 101, CALIFORNIA PROPOSITION 65,	1 700
	ILLINOIS (410 ILCS 45/) LEAD POISONING PREVENTION ACT.	1 01
	AS REQUESTED BY THE APPLICANT, TO DETERMINE TOTAL LEAD CONTENT IN PAINT /	mited Ca
	SIMILAR SURFACE COATING OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH U.S.	
D)	CONSUMER PRODUCT SAFETY IMPROVEMENT ACT OF 2008, SECTION 101, CALIFORNIA	PASS
	PROPOSITION 65, ILLINOIS (410 ILCS 45/) LEAD POISONING PREVENTION ACT AND U.S. CFR	
	TITLE 16 (CPSC REGULATIONS) PART 1303.	
	AS REQUESTED BY THE APPLICANT, TO DETERMINE PHTHALATES CONTENT OF	
	SUBMITTED SAMPLE(S) IN ACCORDANCE WITH 16 CFR PART 1307 - PROHIBITION OF	
E)	CHILDREN'S TOYS AND CHILD CARE ARTICLES CONTAINING SPECIFIED PHTHALATES AND	PASS
	U.S. CALIFORNIA PROPOSITION 65 AND WASHINGTON CHILDREN'S SAFE PRODUCTS ACT	
	(RCW 70.240.020).	
	AS REQUESTED BY THE APPLICANT, TO PERFORM MECHANICAL AND PHYSICAL	
F)	PROPERTIES TEST(S) OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH CANADA	PASS
	CONSUMER PRODUCT SAFETY ACT, TOYS REGULATIONS SOR/2011-17.	
	AS REQUESTED BY THE APPLICANT, TO PERFORM FLAMMABILITY TEST(S) OF SUBMITTED	
G)	SAMPLE(S) IN ACCORDANCE WITH CANADA CONSUMER PRODUCT SAFETY ACT, TOYS	PASS
	REGULATIONS SOR/2011-17.	
	AS REQUESTED BY THE APPLICANT, TO DETERMINE HEAVY METALS CONTENT IN SURFACE	
H)	COATINGS OF SUBMITTED SAMPLE(S) IN ACCORDANCE WITH CANADA CONSUMER	PASS
	PRODUCT SAFETY ACT, TOYS REGULATIONS SOR/2011-17, SECTION 23.	
	AS REQUESTED BY THE APPLICANT, TO DETERMINE MERCURY CONTENT OF SUBMITTED	
I)	SAMPLE(S) IN ACCORDANCE WITH CANADIAN ENVIRONMENTAL PROTECTION ACT,	PASS
	PRODUCTS CONTAINING MERCURY REGULATIONS SOR/2014-254.	
	AS REQUESTED BY THE APPLICANT, TO DETERMINE PHTHALATES CONTENT OF	
J)	SUBMITTED SAMPLE(S) IN ACCORDANCE WITH CANADA CONSUMER PRODUCT SAFETY	PASS
	ACT, SOR/2016-188 PHTHALATES REGULATIONS.	





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Test Result(s):

A) 16 CFR Part 1500.50 - Mechanical and Physical Test

As Per U.S. Code of Federal Regulations Title 16 Part 1500.50, the Hazards of Sharp Points, Sharp Edges and Small Parts are assessed both before and after applicable use and abuse tests.

T (1)	E1104	No. of Sample	Sharp Point	Sharp Edge	Small Part
Test Item(s)	FHSA	Tested	(1500.48)	(1500.49)	(1501)
As Received		1	Pass	Pass	Pass
Impact	Section 1500.51(b)	1	Pass	Pass	Pass
Bite	Section 1500.53(c)	0	NA	NA	NA
Flexure	Section 1500.53(d)	0	NA	NA	NA
Torque	Section 1500.53(e)	1	Pass	Pass	Pass
Tension	Section 1500.53(f)	1	Pass	Pass	Pass
Compression	Section 1500.53(g)	1	Pass	Pass	Pass

Note: NA = Not Applicable.

B) 16 CFR Part 1500.44 - Flammability Test

As per U.S. Code of Federal Regulations Title 16 Part 1500.44 for Rigid and Pliable Solids.

Sample	Burning Rate (inch/sec.)	Limit (inch/sec.)
Magic Stix	Did Not Ignite	0.10

The submitted sample was tested, the above result only showed the most severe burning rate of the samples. Note:

C) Total Lead in Accessible Substrate Materials

With reference to CPSC-CH-E1002-08.3.

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Iten	n	Total Lead (Pb)	
Method	Detection Limit (mg/kg)	2	
CPSIA/	Cal. Prop 65 Limits (mg/kg)	100	
Illinois L	imit (mg/kg)	40*	
Test Par	t Description	Result (mg/kg)	Comment
	Red/ white plastic (shell of marker)		
No.1	Dark red/ white plastic (shell of marker)	ND	Pass
	Blue/ white plastic (shell of marker)		, naaaa,



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Test Iter	n	Total Lead (Pb)	
Method	Detection Limit (mg/kg)	2	
CPSIA/	Cal. Prop 65 Limits (mg/kg)	100	
Illinois L	imit (mg/kg)	40*	
Test Par	t Description	Result (mg/kg)	Comment
	Sky-blue/ white plastic (shell of marker)		
No.2	Dark blue/ white plastic (shell of marker)	ND	Pass
	Royal purple/ white plastic (shell of marker)		
	Green plastic/ white (shell of marker)		
No.3	Dull green/ white plastic (shell of marker)	ND	Pass
	Dark green/ white plastic (shell of marker)	ilnll du:	mited Ca
	Orange plastic/ white (shell of marker) Dull orange/ white plastic (shell of marker)	ice William	
No.4	Dull orange/ white plastic (shell of marker)	ND	Pass
	Army green/ white plastic (shell of marker)		
	Black plastic/ white (shell of marker)		
No.5	Bright yellow/ white plastic (shell of marker)	ND	Pass
	Dull yellow/ white plastic (shell of marker)		
	Dark grey/ white plastic (shell of marker)		
No.6	Grey/ white plastic (shell of marker)	ND	Pass
	Brown/ white plastic (shell of marker)		
	Dark brown/ white plastic (shell of marker)		
No.7	Light brown/ white plastic (shell of marker)	ND	Pass
	Pink plastic/ white (shell of marker)		
	Dark pink/ white plastic (shell of marker)		
No.8	Purple/ white plastic (shell of marker)	ND	Pass
	Dark purple/ white plastic (shell of marker)		
	Dull black plastic (shell of all markers)		
No.9	Translucent plastic box	ND	Pass
	Transparent plastic film with inaccessible coating		
No.10	White fiber (tip of all markers)	ND	Pass
	Red ink (ink)		
No.11	Dark red ink (ink)	ND	Pass
	Blue ink (ink)		





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Test Item		Total Lead (Pb)	
Method E	Detection Limit (mg/kg)	2	
CPSIA/	Cal. Prop 65 Limits (mg/kg)	100	
Illinois Lin	nit (mg/kg)	40*	
Test Part	Description	Result (mg/kg)	Comment
	Sky-blue ink (ink)		
No.12	Dark blue ink (ink)	ND	Pass
	Royal purple ink (ink)		
	Green ink (ink)		
No.13	Dull green ink (ink)	ND	Pass
	Dark green ink (ink)	inll du	imited Car
	Orange ink (ink)	ervice Willi Si	
No.14	Orange ink (ink) Dull orange ink (ink) believable se	ND	Pass
	Army green ink (ink)		
	Black ink (ink)		
No.15	Bright yellow ink (ink)	ND	Pass
	Dull yellow ink (ink)		
	Dark grey ink (ink)		
No.16	Grey ink (ink)	ND	Pass
	Brown ink (ink)		
	Dark brown ink (ink)		
No.17	Light brown ink (ink)	ND	Pass
	Pink ink (ink)		
	Dark pink ink (ink)		
No.18	Purple ink (ink)	ND	Pass
	Dark purple ink (ink)		

Note:

- 1. mg/kg = Milligram per kilogram = ppm
- ND = Not detected (<Method detection limit) 2.
- * = If total lead content in any component part of the item that is, more than 0.004% (40 parts per million) but less than 0.010% (100 parts per million) in substrates by weight, item need bear a warning statement indicates that at least one component part of the item contains lead.



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D) Total Lead in Paint / Similar Surface Coating

With reference to CPSC-CH-E1003-09.1.

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Ite	m	Total Lead (Pb)				
Method	Detection Limit (mg/kg)	2				
CPSIA	/ Cal. Prop 65 / 16 CFR 1303 Limits (mg/kg)	90				
Illinois I	_imit (mg/kg)	40*				
Test Pa	rt Description	Result (mg/kg)	Comment			
No.1	Silvery coating on plastic (logo on all markers)	ND				
Note:	 mg/kg = Milligram per kilogram = ppm ND = Not detected (<method detection="" li="" limit)<=""> </method>	nat is, more than 0.004% (40 na	limited ca			
	3 * - If total lead content in any component part of the item th	pat is more than 0.004% (40 page	te per million) but			

- 1. mg/kg = Milligram per kilogram = ppm
- 2. ND = Not detected (<Method detection limit)
- * = If total lead content in any component part of the item that is, more than 0.004% (40 parts per million) but less than 0.009% (90 parts per million) in Paint / Similar Surface Coating by weight, item need bear a warning statement indicates that at least one component part of the item contains lead.

E) Phthalates Content

With reference to CPSC-CH-C1001-09.4, analysis was performed by Gas Chromatography/Mass Spectrometry (GC-MS).

Test Ite	em	DnHP DHEXP	DBP	BBP	DEHP	DINP	DNOP	DIDP	
Metho	d Detection Limit (%)	0.003	0.003	0.003	0.003	0.010	0.003	0.010	
16 CF	R Part 1307 & Cal. Prop 65 Limits (%)	0.1	0.1	0.1	0.1	0.1		0.1	
Washi	ngton Limit (%)				0.1 (Sum)			
Client	Limit (%)			C).1 (Sum)				
Test P	art Description	7.		F	esult (%)				Comment
No.1	Red/ white plastic (shell of marker) Dark red/ white plastic (shell of marker) Blue/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	ND	Pass
No.2	Sky-blue/ white plastic (shell of marker) Dark blue/ white plastic (shell of marker) Royal purple/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	ND	Pass





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Test Ite	em	DnHP DHEXP	DBP	BBP	DEHP	DINP	DNOP	DIDP	
Method Detection Limit (%)		0.003	0.003	0.003	0.003	0.010	0.003	0.010	
16 CF	R Part 1307 & Cal. Prop 65 Limits (%)	0.1	0.1	0.1	0.1	0.1		0.1	
Washir	ngton Limit (%)				0.1 (Sum)			
Client I	Limit (%)			C).1 (Sum)				
Test Pa	art Description			F	Result (%)	1	1	1	Comment
	Green plastic/ white (shell of								
	marker)								
No.3	Dull green/ white plastic (shell of	ND	ND	ND	ND	ND	ND.	ND .	Pass
110.0	marker)	ND					11	nlimi	tellassait
	Dark green/ white plastic (shell of			- lo	le ser	vice \	vith U		
	marker)		beli	evan	IE 30.				
	Orange plastic/ white (shell of								
	marker)					939			
No.4	Dull orange/ white plastic (shell of	NID	NID	NID	NID	NID	NID	NID	D
No.4	marker)	ND	ND ND	ND	ND	ND ND	ND	ND	Pass
	Army green/ white plastic (shell of								
	marker)								
	Black plastic/ white (shell of marker)								
	Bright yellow/ white plastic (shell of				1				
No.5	marker)	ND	ND	ND	ND	ND	ND	ND	Pass
	Dull yellow/ white plastic (shell of								
	marker)								
	Dark grey/ white plastic (shell of								
	marker)			1					
No.6	Grey/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	ND	Pass
	Brown/ white plastic (shell of								1.00
	marker)								
	Dark brown/ white plastic (shell of								
	marker)	0.000							
No.7	Light brown/ white plastic (shell of	ND	ND	ND	ND	ND	ND	ND	Pass
110.7	marker)								
	Pink plastic/ white (shell of marker)								





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Test Ite	em	DnHP DHEXP	DBP	BBP	DEHP	DINP	DNOP	DIDP	
Method Detection Limit (%)		0.003	0.003	0.003	0.003	0.010	0.003	0.010	
16 CF	R Part 1307 & Cal. Prop 65 Limits (%)	0.1	0.1	0.1	0.1	0.1		0.1	
Washii	ngton Limit (%)				0.1 (Sum)			
Client	Limit (%)			().1 (Sum)				
Test Pa	art Description		Т	F	Result (%)) T	T	1	Comment
	Dark pink/ white plastic (shell of								
	marker)								
No.8	Purple/ white plastic (shell of	ND	ND	ND	ND	ND	ND	ND .	Pass
. 10.0	marker)						11	nlimi	ted
	Dark purple/ white plastic (shell of			h	le ser	vice /	vith U		
	marker)		beli	6 Agn	10 00				
	Dull black plastic (shell of all								
	markers)				1000	7500			
No.9	Translucent plastic box	ND	ND	ND	ND	ND	ND	ND	Pass
	Transparent plastic film with								
	inaccessible coating								
No.10	White fiber (tip of all markers)	ND	ND	ND	ND	ND	ND	ND	Pass
	Red ink (ink)								
No.11	Dark red ink (ink)	ND	ND	ND	ND	ND	ND	ND	Pass
	Blue ink (ink)								
	Sky-blue ink (ink)								
No.12	Dark blue ink (ink)	ND	ND	ND	ND	ND	ND	ND	Pass
	Royal purple ink (ink)								
	Green ink (ink)			1					
No.13	Dull green ink (ink)	ND	ND	ND	ND	ND	ND	ND	Pass
	Dark green ink (ink)								
	Orange ink (ink)								
No.14	Dull orange ink (ink)	ND	ND	ND	ND	ND	ND	ND	Pass
	Army green ink (ink)	00000							
	Black ink (ink)								
No.15	Bright yellow ink (ink)	ND	ND	ND	ND	ND	ND	ND	Pass
	Dull yellow ink (ink)								





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Test Ite	em	DnHP DHEXP	DBP	BBP	DEHP	DINP	DNOP	DIDP	
Metho	d Detection Limit (%)	0.003	0.003	0.003	0.003	0.010	0.003	0.010	
16 CF	R Part 1307 & Cal. Prop 65 Limits (%)	0.1	0.1	0.1	0.1	0.1		0.1	
Washir	ngton Limit (%)				0.1 (Sum)			
Client I	Limit (%)			C).1 (Sum)				
Test Pa	art Description			F	Result (%)				Comment
	Dark grey ink (ink)								
No.16	Grey ink (ink)	ND	ND	ND	ND	ND	ND	ND	Pass
	Brown ink (ink)								
	Dark brown ink (ink)						11	nlimi	ted care
No.17	Light brown ink (ink)	ND	ND	ND	ND	ND	ND	ND	Pass
	Pink ink (ink)		beli	evap	le so				
	Dark pink ink (ink)								
No.18	Purple ink (ink)	ND	ND	ND	ND	ND	ND	ND	Pass
	Dark purple ink (ink)			100000					
No.19	Silvery coating on plastic (logo on all markers)	ND	ND	ND	ND	ND	ND	ND	Pass

Test Ite	m	DIBP	DPENP	DCHP	
Method	Detection Limit (%)	0.003	0.010	0.010	
16 CFF	R Part 1307 & Cal. Prop 65 Limits (%)	0.1	0.1	0.1	
Test Pa	rt Description		Result (%)		Comment
No.1	Red/ white plastic (shell of marker) Dark red/ white plastic (shell of marker) Blue/ white plastic (shell of marker)	ND	ND	ND	Pass
No.2	Sky-blue/ white plastic (shell of marker) Dark blue/ white plastic (shell of marker) Royal purple/ white plastic (shell of marker)	ND	ND	ND	Pass





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Test Ite	m	DIBP	DPENP	DCHP	
Method	Detection Limit (%)	0.003	0.010	0.010	
16 CFF	R Part 1307 & Cal. Prop 65 Limits (%)	0.1 0.1		0.1	
Test Pa	rt Description		Result (%)		Comment
No.3	Green plastic/ white (shell of marker) Dull green/ white plastic (shell of marker) Dark green/ white plastic (shell of marker)	ND	ND	ND	Pass
No.4	Orange plastic/ white (shell of marker) Dull orange/ white plastic (shell of marker) Army green/ white plastic (shell of marker)	ND belie	rable NDSTVICE	with Unlimi	Pass
No.5	Black plastic/ white (shell of marker) Bright yellow/ white plastic (shell of marker) Dull yellow/ white plastic (shell of marker)	ND	ND	ND	Pass
No.6	Dark grey/ white plastic (shell of marker) Grey/ white plastic (shell of marker) Brown/ white plastic (shell of marker)	ND	ND	ND	Pass
No.7	Dark brown/ white plastic (shell of marker) Light brown/ white plastic (shell of marker) Pink plastic/ white (shell of marker)	ND	ND	ND	Pass
No.8	Dark pink/ white plastic (shell of marker) Purple/ white plastic (shell of marker) Dark purple/ white plastic (shell of marker)	ND	ND	ND	Pass





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Test Ite	m	DIBP	DPENP	DCHP	
Method	Detection Limit (%)	0.003	0.010	0.010	
16 CFF	R Part 1307 & Cal. Prop 65 Limits (%)	0.1	0.1	0.1	
Test Pa	rt Description		Result (%)		Comment
No.9	Dull black plastic (shell of all markers) Translucent plastic box Transparent plastic film with	ND	ND	ND	Pass
	inaccessible coating				
No.10	White fiber (tip of all markers)	ND	ND	ND	Pass
No.11	Red ink (ink) Dark red ink (ink) Blue ink (ink)	ND helie	able Service	with No	Pass
No.12	Sky-blue ink (ink) Dark blue ink (ink) Royal purple ink (ink)	ND	ND	ND	Pass
No.13	Green ink (ink) Dull green ink (ink) Dark green ink (ink)	ND	ND	ND	Pass
No.14	Orange ink (ink) Dull orange ink (ink) Army green ink (ink)	ND	ND	ND	Pass
No.15	Black ink (ink) Bright yellow ink (ink) Dull yellow ink (ink)	ND	ND	ND	Pass
No.16	Dark grey ink (ink) Grey ink (ink) Brown ink (ink)	ND	ND	ND	Pass
No.17	Dark brown ink (ink) Light brown ink (ink) Pink ink (ink)	ND	ND	ND	Pass
No.18	Dark pink ink (ink) Purple ink (ink) Dark purple ink (ink)	ND	ND	ND	Pass





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Test Ite	m	DIBP	DPENP	DCHP	
Method	Detection Limit (%)	0.003	0.010	0.010	
16 CFR Part 1307 & Cal. Prop 65 Limits (%)		0.1	0.1	0.1	
Test Pa	art Description		Result (%)		Comment
No.19	Silvery coating on plastic (logo on all markers)	ND	ND	ND	Pass

Note: 1. % = Percentage by weight (w/w)

- 2. 0.1% = 1000ppm (mg/kg)
- 3. ND = Not detected (<Method detection limit)

F) SOR/2011-17 Mechanical and Physical Test

vable service with Unlimited care As per Canada Consumer Product Safety Act, Toys Regulations SOR/2011-17.

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

Act, Toys Regulations COTV2011 17.	
Test Item(s)	Parameter
Drop Test	4 drops×3.0 ft
Pull Test	10 lbf, 10 sec
Push Test	10 lbf, 10 sec

Clause **Description** Result Plastic Edges 10 **Pass**

Note: Only applicable clause was shown.

G) SOR/2011-17 Flammability Test of Toys

As per Canada Consumer Product Safety Act, Toys Regulations SOR/2011-17 Section 21.

Clause Description Result 21 Celluloid or Cellulose Nitrate Pass

Note: Only applicable clause was shown.



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H) SOR/2011-17 Heavy Metals Content in Surface Coatings

With reference to SOR/2011-17, section 23.

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test It		To	tal			Soluble			
resun	TOSC ROTT		Hg	Cd	As	Sb	Se	Ва	
Metho	od Detection Limit (mg/kg)	2	2	5	2	2	5	5	
Permi	ssible Limit (mg/kg)	90	ND	1000	1000	1000	1000	1000	
Test Part Description		Result (mg/kg)							Comment
No.1	Silvery coating on plastic (logo on all	ND	ND	ND	8.2	ND	ND	ND	Pass
140.1	markers)				_				
Note:	 mg/kg = Milligram per kilogram = ppm ND = Not detected (<method detection="" li="" line<=""> </method>	nit)						Untim	

SOR/2014-254 Mercury Content

With reference to SOR/2014-254.

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Test Item		Mercury (Hg)	
Method	Detection Limit (mg/kg)	2	
Permissi	ible Limit (mg/kg)	1000	
Test Par	t Description	Result (mg/kg)	Comment
	Red/ white plastic (shell of marker)		
No.1	Dark red/ white plastic (shell of marker)	ND	Pass
	Blue/ white plastic (shell of marker)		
	Sky-blue/ white plastic (shell of marker)		
No.2	Dark blue/ white plastic (shell of marker)	ND	Pass
	Royal purple/ white plastic (shell of marker)		
	Green plastic/ white (shell of marker)		
No.3	Dull green/ white plastic (shell of marker)	ND	Pass
	Dark green/ white plastic (shell of marker)		
	Orange plastic/ white (shell of marker)		
No.4	Dull orange/ white plastic (shell of marker)	ND	Pass
	Army green/ white plastic (shell of marker)		



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Method Detection Limit (mg/kg) Permissible Limit (mg/kg) Test Part Description Result (mg/kg) Description Result (mg/kg) Result (mg/kg) Dement Black plastic/ white (shell of marker) No.5 Bright yellow/ white plastic (shell of marker) Dark grey/ white plastic (shell of marker) No.6 Grey/ white plastic (shell of marker) No.7 Light brown/ white plastic (shell of marker) No.7 Light brown/ white plastic (shell of marker) No.8 Dark pink/ white plastic (shell of marker) No.9 Dark pink/ white plastic (shell of marker) No.9 Dark pink/ white plastic (shell of marker) No.9 Transparent plastic (shell of marker) No.9 Transparent plastic (shell of marker) No.10 White fiber (tip of all markers) No.11 Dark red ink (ink) Sky-blue ink (ink) No.12 Dark green ink (ink) No.13 Dull green ink (ink) Dark green ink (ink) Orange ink (ink) No.14 Dull orange ink (ink) No.15 Dark green ink (ink) No.16 Dark green ink (ink) No.17 Dark green ink (ink) No.18 Dark green ink (ink) No.19 Dark green ink (ink)	Test Iter	n	Mercury (Hg)	
Test Part Description Black plastic/ white (shell of marker) No.5 Bright yellow white plastic (shell of marker) Dull yellow white plastic (shell of marker) No.6 Grey/ white plastic (shell of marker) No.6 Grey/ white plastic (shell of marker) No.7 Dark brown/ white plastic (shell of marker) No.7 Light brown/ white plastic (shell of marker) No.8 Purple/ white plastic (shell of marker) No.8 Purple/ white plastic (shell of marker) No.8 Purple/ white plastic (shell of marker) Dark purple/ white plastic (shell of marker) Dull black plastic (shell of marker) Dull black plastic (shell of marker) No.9 Translucent plastic (shell of all markers) No.10 White fiber (tip of all markers) Red ink (ink) No.11 Dark red ink (ink) Blue ink (ink) No.12 Dark blue ink (ink) Royal purple ink (ink) Royal purple ink (ink) Green ink (ink) Orange ink (ink) No.14 Dull orange ink (ink) No.15 Dark green ink (ink) Orange ink (ink) No.16 Dull orange ink (ink) No.17 Dull orange ink (ink) No.18 Dull orange ink (ink) No.19 Dull orange ink (ink) No.10 Dull orange ink (ink)	Method	Detection Limit (mg/kg)	2	
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No.8 Purple/ white plastic (shell of marker) Dark purple/ white plastic (shell of marker) Dull black plastic (shell of all markers) Translucent plastic box Transparent plastic film with inaccessible coating No.10 White fiber (tip of all markers) No.11 Dark red ink (ink) Blue ink (ink) Sky-blue ink (ink) Dark blue ink (ink) Royal purple ink (ink) Green ink (ink) Dark green ink (ink) Orange ink (ink) No.14 Dull orange ink (ink) No.15 Dark green ink (ink) No.16 Dark green ink (ink) No.17 Dark green ink (ink) No.18 Dull orange ink (ink) No.19 Dark green ink (ink) No.10 Dark green ink (ink) No.10 Dark green ink (ink) No.11 Dull orange ink (ink) No.12 Dark green ink (ink) No.13 Dull orange ink (ink) No.14 Dull orange ink (ink) No.15 No.16 No.17 Pass		Pink plastic/ white (shell of marker)		
Dark purple/ white plastic (shell of marker) Dull black plastic (shell of all markers) Translucent plastic box Transparent plastic film with inaccessible coating No.10 White fiber (tip of all markers) No.11 Dark red ink (ink) Blue ink (ink) Sky-blue ink (ink) Sky-blue ink (ink) Royal purple ink (ink) Oark green ink (ink) Dark green ink (ink) Orange ink (ink) No.14 Dull orange ink (ink) No.15 Dull orange ink (ink) No.16 Dark blue ink (ink) No.17 Dark green ink (ink) No.18 Dark green ink (ink) No.19 Dark green ink (ink) No.10 Pass		Dark pink/ white plastic (shell of marker)		
No.9 Dull black plastic (shell of all markers) Translucent plastic box Transparent plastic film with inaccessible coating No.10 White fiber (tip of all markers) Red ink (ink) No.11 Dark red ink (ink) Blue ink (ink) Sky-blue ink (ink) No.12 Dark blue ink (ink) Royal purple ink (ink) Green ink (ink) No.13 Dull green ink (ink) Dark green ink (ink) Orange ink (ink) No.14 Dull orange ink (ink) No.15 Dull orange ink (ink) No.16 Pass	No.8	Purple/ white plastic (shell of marker)	ND	Pass
No.9 Translucent plastic box Transparent plastic film with inaccessible coating No.10 White fiber (tip of all markers) Red ink (ink) No.11 Dark red ink (ink) Blue ink (ink) Sky-blue ink (ink) Dark blue ink (ink) Royal purple ink (ink) Orange ink (ink) Orange ink (ink) No.14 Dull orange ink (ink) No.15 Pass ND Pass		Dark purple/ white plastic (shell of marker)		
Transparent plastic film with inaccessible coating No.10 White fiber (tip of all markers) Red ink (ink) No.11 Dark red ink (ink) Blue ink (ink) Sky-blue ink (ink) No.12 Dark blue ink (ink) Royal purple ink (ink) Orange ink (ink) Orange ink (ink) No.14 Dull orange ink (ink) No.15 No.16 No.17 No.18 No.18 No.18 No.19 Pass		Dull black plastic (shell of all markers)		
No.10 White fiber (tip of all markers) Red ink (ink) No.11 Dark red ink (ink) Blue ink (ink) Sky-blue ink (ink) No.12 Dark blue ink (ink) Royal purple ink (ink) Green ink (ink) Dark green ink (ink) Orange ink (ink) No.14 Dull orange ink (ink) ND Pass	No.9	Translucent plastic box	ND	Pass
No.11 Red ink (ink) Dark red ink (ink) Blue ink (ink) No.12 Sky-blue ink (ink) Dark blue ink (ink) Royal purple ink (ink) No.13 Dull green ink (ink) Dark green ink (ink) Orange ink (ink) No.14 Dull orange ink (ink) ND Pass ND Pass ND Pass ND Pass ND Pass		Transparent plastic film with inaccessible coating		
No.11 Dark red ink (ink) Blue ink (ink) Sky-blue ink (ink) No.12 Dark blue ink (ink) Royal purple ink (ink) Green ink (ink) Dull green ink (ink) Dark green ink (ink) Orange ink (ink) No.14 Dull orange ink (ink) ND Pass ND Pass	No.10	White fiber (tip of all markers)	ND	Pass
Blue ink (ink) Sky-blue ink (ink) No.12 Dark blue ink (ink) Royal purple ink (ink) Oreen ink (ink) Dark green ink (ink) Orange ink (ink) No.14 Dull orange ink (ink) No.15 Dark green ink (ink) No.16 Dull orange ink (ink) No.17 Dull orange ink (ink) No.18 Dark green ink (ink) No.19 Dull orange ink (ink) No.19 Dull orange ink (ink)		Red ink (ink)		
No.12 Sky-blue ink (ink) Dark blue ink (ink) Royal purple ink (ink) Oreen ink (ink) Dull green ink (ink) No.13 Dull green ink (ink) Dark green ink (ink) Orange ink (ink) No.14 Dull orange ink (ink) ND Pass ND Pass	No.11	Dark red ink (ink)	ND	Pass
No.12 Dark blue ink (ink) Royal purple ink (ink) Green ink (ink) No.13 Dull green ink (ink) Dark green ink (ink) Orange ink (ink) No.14 Dull orange ink (ink) ND Pass ND Pass		Blue ink (ink)		
Royal purple ink (ink) Green ink (ink) No.13 Dull green ink (ink) Dark green ink (ink) Orange ink (ink) No.14 Dull orange ink (ink) ND Pass		Sky-blue ink (ink)		
No.13 Green ink (ink) Dull green ink (ink) Dark green ink (ink) Orange ink (ink) No.14 Dull orange ink (ink) ND Pass	No.12	Dark blue ink (ink)	ND	Pass
No.13 Dull green ink (ink) Dark green ink (ink) Orange ink (ink) No.14 Dull orange ink (ink) ND Pass		Royal purple ink (ink)		
Dark green ink (ink) Orange ink (ink) No.14 Dull orange ink (ink) ND Pass		Green ink (ink)		
Orange ink (ink) No.14 Dull orange ink (ink) ND Pass	No.13	Dull green ink (ink)	ND	Pass
No.14 Dull orange ink (ink) ND Pass		Dark green ink (ink)		
		Orange ink (ink)		
Army green ink (ink)	No.14	Dull orange ink (ink)	ND	Pass
, 3 3		Army green ink (ink)		





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Test Iter	n	Mercury (Hg)	
Method	Detection Limit (mg/kg)	2	
Permiss	ible Limit (mg/kg)	1000	
Test Par	t Description	Result (mg/kg)	Comment
	Black ink (ink)		
No.15	Bright yellow ink (ink)	ND	Pass
	Dull yellow ink (ink)		
	Dark grey ink (ink)		
No.16	Grey ink (ink)	ND	Pass
	Brown ink (ink)		iso besi
	Dark brown ink (ink) Light brown ink (ink) Pink ink (ink)	. with Unli	Wifer on
No.17	Light brown ink (ink)	VICE ND	Pass
	Pink ink (ink)		
	Dark pink ink (ink)		
No.18	Purple ink (ink)	ND	Pass
	Dark purple ink (ink)		

1. mg/kg = Milligram per kilogram = ppm Note:

2. ND = Not detected (<Method detection limit)

J) SOR/2016-188 Phthalates Content

With reference to SOR/2016-188, analysis was performed by Gas Chromatography/Mass Spectrometry (GC-MS).

Test Ite	em	DBP	BBP	DEHP	DINP	DNOP	DIDP	
Metho	d Detection Limit (%)	0.003	0.003	0.003	0.010	0.003	0.010	
Permis	ssible Limit (%)	0.1	0.1	0.1	0.1	0.1	0.1	
Test Pa	art Description			Resu	lt (%)			Comment
	Red/ white plastic (shell of marker)							1000
No.1	Dark red/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	Pass
	Blue/ white plastic (shell of marker)		0.50	5,000				
	Sky-blue/ white plastic (shell of marker)	100 mg						
	Dark blue/ white plastic (shell of							
No.2	marker)	ND	ND	ND	ND	ND	ND	Pass
	Royal purple/ white plastic (shell of							
	marker)							nannan



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Test Ite	em	DBP	BBP	DEHP	DINP	DNOP	DIDP	
Metho	d Detection Limit (%)	0.003	0.003	0.003	0.010	0.003	0.010	
Permis	ssible Limit (%)	0.1	0.1	0.1	0.1	0.1	0.1	
Test Pa	art Description			Resu	ılt (%)			Comment
No.3	Green plastic/ white (shell of marker) Dull green/ white plastic (shell of marker) Dark green/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	Pass
No.4	Orange plastic/ white (shell of marker) Dull orange/ white plastic (shell of marker) Army green/ white plastic (shell of marker)	ND	ND	ND S	e ND CE	with ND	Jnlim	red cal
No.5	Black plastic/ white (shell of marker) Bright yellow/ white plastic (shell of marker) Dull yellow/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	Pass
No.6	Dark grey/ white plastic (shell of marker) Grey/ white plastic (shell of marker) Brown/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	Pass
No.7	Dark brown/ white plastic (shell of marker) Light brown/ white plastic (shell of marker) Pink plastic/ white (shell of marker)	ND	ND	ND	ND	ND	ND	Pass
No.8	Dark pink/ white plastic (shell of marker) Purple/ white plastic (shell of marker) Dark purple/ white plastic (shell of marker)	ND	ND	ND	ND	ND	ND	Pass





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Test Ite	em	DBP	BBP	DEHP	DINP	DNOP	DIDP	
Method	d Detection Limit (%)	0.003	0.003	0.003	0.010	0.003	0.010	
Permis	ssible Limit (%)	0.1	0.1	0.1	0.1	0.1	0.1	
Test Pa	art Description			Resu	lt (%)			Comment
No.9	Dull black plastic (shell of all markers) Translucent plastic box Transparent plastic film with inaccessible coating	ND	ND	ND	ND	ND	ND	Pass
No.10	White fiber (tip of all markers)	ND	ND	ND	ND	ND	ND	Pass
No.11	Red ink (ink) Dark red ink (ink) Blue ink (ink)	ND	ND	ND	ND Service	ND	ND	Pass
No.12	Sky-blue ink (ink) Dark blue ink (ink) Royal purple ink (ink)	ND	ND	ND	ND	ND	ND	Pass
No.13	Green ink (ink) Dull green ink (ink) Dark green ink (ink)	ND	ND	ND	ND	ND	ND	Pass
No.14	Orange ink (ink) Dull orange ink (ink) Army green ink (ink)	ND	ND	ND	ND	ND	ND	Pass
No.15	Black ink (ink) Bright yellow ink (ink) Dull yellow ink (ink)	ND	ND	ND	ND	ND	ND	Pass
No.16	Dark grey ink (ink) Grey ink (ink) Brown ink (ink)	ND	ND	ND	ND	ND	ND	Pass
No.17	Dark brown ink (ink) Light brown ink (ink) Pink ink (ink)	ND	ND	ND	ND	ND	ND	Pass
No.18	Dark pink ink (ink) Purple ink (ink) Dark purple ink (ink)	ND	ND	ND	ND	ND	ND	Pass





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Test Ite	em	DBP	BBP	DEHP	DINP	DNOP	DIDP	
Metho	d Detection Limit (%)	0.003	0.003	0.003	0.010	0.003	0.010	
Permis	ssible Limit (%)	0.1	0.1	0.1	0.1	0.1	0.1	
Test Pa	art Description			Resu	lt (%)			Comment
No.19	Silvery coating on plastic (logo on all markers)	ND	ND	ND	ND	ND	ND	Pass

Note: 1. % = Percentage by weight (w/w)

2. 0.1% = 1000ppm (mg/kg)

3. ND = Not detected (<Method detection limit)



The test result of the report is related to the item being tested only. UTL does not verify or be liable to any declare or declaration if the particular/specific item is not tested.



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Sample Photo(s):









*** End of Report ***

