

Dated: 2019-08-15



**Applicant** : Spector & Co

Address :

Sample Description : Plastic twist-action pen and yellow highlighter

Product Type / End Use : WRITING INSTRUMENT

Item No. : G1056

Style No. : PRIMA

Supplier : USD030

Country of Origin : China

Exported to : Canada & U.S.A.

Test Sample Receipt Date, Location : 2019-07-03, 2019-07-22, Shenzhen

Test Period, Location : From 2019-07-03 to 2019-08-14, Shenzhen

Test Result(s) : Refer to Section 3

Dated: 2019-08-15



### **Purpose Of Examination / Conclusion:**

No.	Test Item(s)	Conclusion
1.	US California Proposition 65 - Total Cadmium Content Test - Substrate	Pass*
'-	Materials	F d 5 5
2.	US California Proposition 65 - Total Cadmium Content Test - Paint and	Pass*
۷.	Similar Surface-Coating Materials	F a55
3.	US California Proposition 65 - Total Lead Content Test - Substrate	Pass*
J.	Materials	1 033
4.	US California Proposition 65 - Total Lead Content Test - Paint and Similar	Pass*
	Surface-Coating Materials	1 033
5.	Canadian Consumer Products Containing Lead Regulations SOR/2018-	Pass
J.	83 - Total Lead Content Test	1 433
6.	Canadian Surface Coating Materials Regulations SOR/2016-193 - Total	Pass
<u> </u>	Lead Content Test	1 433
7.	Phthalates Content	Pass*
8.	US California Proposition 65 - Phthalates Content	Pass*
9.	U.S. CFR Title 16 Part 1307 - Phthalates Content	Pass
10.	Tungsten Content Test	Report as is

### Remarks:

- (1) The results relate only to the items tested.
- (2) Samples are tested as received.
- (3) "\*" denotes the conclusion was drawn according to the client's specification.
- (4) The test item and samples were specified by the client
- (5) "Pass" means the measured result is within a limit, even when extended by expanded uncertainty. "Fail" means the measured result is beyond a limit, even when extended by expanded uncertainty. "Inconclusive" means the measured result can be within or beyond a limit when extended by expanded uncertainty. The confidence level of the expended uncertainty for "pass", "Fail" and "Inconclusive" is 95%.

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Dated: 2019-08-15



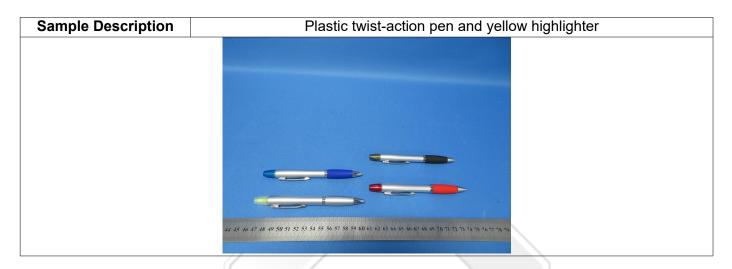
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Dated: 2019-08-15



# 1. Description of the Test Sample:



# 2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Translucent red plastic (Cap of marker)	
T2	002	Yellow ink (Marker ink)	
Т3	003	Translucent plastic (Collar of marker)	
T4	004	Dull silver coating (Barrel)	
T5	005	Black plastic (Barrel)	
Т6	006	Silvery metal (Clip)	
Т7	007	Silver coating (Ring & collar)	

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T. No.	Sample No.	Colour and Description	Photograph
Т8	008	Matt black plastic (Ring & collar)	
Т9	009	Clear coating (Handle of pen)	
T10	010	Red plastic (Handle of pen)	
T11	011	White plastic (Core)	
T12	012	Silvery metal (Spring of core)	
T13	013	Blue ink (Pen ink)	
T14	014	Silvery metal (Tip of pen)	
T15	015	Silvery metal (Ball of tip)	Y
T16	016	Bright translucent plastic (Cap of marker)	
T17	017	Translucent black plastic (Cap of marker)	
T18	018	Black plastic (Handle of pen)	
T19	019	Translucent blue plastic (Cap of marker)	
T20	020	Blue plastic (Handle of pen)	44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 70 71 72 73 74 75 74 77 74 79

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Dated: 2019-08-15



#### 3. **Test Result**

#### 3.1 **US California Proposition 65 - Total Cadmium Content Test - Substrate Materials**

Test method: Acid digestion/Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

	F	Client's		
Test item	Sample 001+003+005	Sample 006	Sample 008+010+011	Specification [mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

		Results [mg/kg]		
Test item	Sample 012	Sample 014	Sample 015	Specification [mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

	Results [	Client's	
Test item	Sample	Sample	Specification
	016+017+018	019+020	[mg/kg]
Cadmium	N.D.	N.D.	<75
Conclusion	Pass	Pass	-

### Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

### US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-3.2 **Coating Materials**

Test method: Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

	1	Client's		
Test Item	Sample 002	Sample 004+007+009	Sample 013	Specification [mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

### Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

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### 3.3 US California Proposition 65 - Total Lead Content Test - Substrate Materials

Test method: Acid digestion or Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

	Results [mg/kg]			
Test Item	Sample 001+003+005	Sample 006	Sample 008+010+011	Specification [mg/kg]
Lead	25.3	N.D.	N.D.	<100
Conclusion	Pass	Pass	Pass	-

		Results [mg/kg]			Client's
Test Item		Sample	Sample	Sample	Specification
		012	014	015	[mg/kg]
Lead		N.D.	27.3	45.8	<100
Conclusion		Pass	Pass	Pass	-

	Results [	Client's	
Test Item	Sample 016+017+018		
Lead	N.D.	N.D.	<100
Conclusion	Pass	Pass	-

### Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

# 3.4 US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating Materials

Test method: Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

	Results [mg/kg]			
Test Item	Sample 002	Sample 004+007+009	Sample 013	Specification [mg/kg]
Lead	N.D.	N.D.	N.D.	<90
Conclusion	Pass	Pass	Pass	-

### Note:

- "mg/kg" denotes milligram per kilogram

- "<" denotes less than

- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

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#### 3.5 **Total Lead**

Consumer Products Containing Lead Regulations SOR/2018-83 Acid digestion / Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

[Reporting Limit: 10.0mg/kg]

	Result [mg/kg]				
Analyte	Sample	Sample	Sample		
	001+003+005	002	004+007+009		
Lead	25.3	N.D.	N.D.		
Limit		<90			
Conclusion	Pass	Pass	Pass		

/		Result [mg/kg]					
Analyte	Sample 006	Sample 008+010+011	Sample 012				
Lead	N.D.	N.D.	N.D.				
Limit		<90					
Conclusion	Pass	Pass	Pass				

		Result [mg/kg]					
Analyte	Sample 013	Sample 014	Sample 015				
Lead	N.D.	27.3	45.8				
Limit		<90					
Conclusion	Pass	Pass	Pass				

	Result [mg/kg]			
Analyte	Sample	Sample		
	016+017+018	019+020		
Lead	N.D.	N.D.		
Limit	<90			
Conclusion	Pass	Pass		

Note 1. "mg/kg" denotes milligram per kilogram

- 2. "<" denotes less than
- 3. "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

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### 3.6 Total Lead

Surface Coating Materials Regulations SOR/2016-193 Microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICPOES). [Reporting Limit: 10.0mg/kg]

		Result [mg/kg]					
Analyte	Sample 002	Sample 004+007+009	Sample 013				
Lead	N.D.	N.D.	N.D.				
Limit		<90					
Conclusion	Pass	Pass	Pass				

Note 1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than

3. "N.D." denotes Not Detected with Detection Limit 10.0mg/kg



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### 3.7 Phthalates Content

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

		Results [%]			Client's
Test Items	CAS No.	Sample 001+003 +005	Sample 002	Sample 004	Specification [%]
Di-(2-ethylhexyl)-phthalat (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Dibutylbenzylphthalat (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Diethyl phthalate (DEP)	84-66-2	N.D.	N.D.	N.D.	<0.1
Butylbenzylphthalat (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-iso-butylphthalat (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-isodecylphthalat (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-octylphthalat (DNOP)	117-84-0	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-n-pentyphthalat (DNPP)	131-18-0	N.D.	N.D.	N.D.	<0.1
Conclusion	ı	Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

2. "<" denotes less than

3. "N.D." denotes Not Detected with Detection Limit 0.005%

Dated: 2019-08-15



### 3.7 Phthalates Content

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

		Results [%]			Client's
Test Items	CAS No.	Sample 007	Sample 008+010 +011	Sample 009	Specification [%]
Di-(2-ethylhexyl)-phthalat (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Dibutylbenzylphthalat (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Diethyl phthalate (DEP)	84-66-2	N.D.	N.D.	N.D.	<0.1
Butylbenzylphthalat (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-iso-butylphthalat (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-isodecylphthalat (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-octylphthalat (DNOP)	117-84-0	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-n-pentyphthalat (DNPP)	131-18-0	N.D.	N.D.	N.D.	<0.1
Conclusion	1	Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

2. "<" denotes less than

3. "N.D." denotes Not Detected with Detection Limit 0.005%

Dated: 2019-08-15



### 3.7 Phthalates Content

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

		Results [%]			Client's
Test Items	CAS No.	Sample 013	Sample 016+017 +018	Sample 019+020	Specification [%]
Di-(2-ethylhexyl)-phthalat (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Dibutylbenzylphthalat (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Diethyl phthalate (DEP)	84-66-2	N.D.	N.D.	N.D.	<0.1
Butylbenzylphthalat (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-iso-butylphthalat (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-isodecylphthalat (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-octylphthalat (DNOP)	117-84-0	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-n-pentyphthalat (DNPP)	131-18-0	N.D.	N.D.	N.D.	<0.1
Conclusion	ı	Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

2. "<" denotes less than

3. "N.D." denotes Not Detected with Detection Limit 0.005%

Dated: 2019-08-15



# 3.8 US California Proposition 65 - Phthalates Content

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

		F	Results [%	Client's	
Test Items	CAS No.	Sample 001+003 +005	Sample 002	Sample 004	Specification [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DNHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Conclusion	GIII	Pass	Pass	Pass	-

		_/ F	Results [%	Client's	
Test Items	CAS No.	Sample 007	Sample 008+010 +011	Sample 009	Specification [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DNHP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Conclusion		Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

2. "<" denotes less than

3. "N.D." denotes Not Detected with Detection Limit 0.005%

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## 3.8 US California Proposition 65 - Phthalates Content

Test method: In-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting limit: 0.005%]

		Results [%]			Client's	
Test Items	CAS No.	Sample 013	Sample 016+017 +018	Sample 019+020	Specification [%]	
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1	
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1	
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1	
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	N.D.	<0.1	
Di-n-hexyl phthalate (DNHP)	84-75-3	N.D.	N.D.	N.D.	<0.1	
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1	
Conclusion	GIII	Pass	Pass	Pass	-	

Note 1. "%" denotes percentage by weight

2. "<" denotes less than

3. "N.D." denotes Not Detected with Detection Limit 0.005%

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### 3.9 U.S. CFR Title 16 Part 1307 - Phthalates Content

CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates [Reporting Limit = 0.005%]

		F	Results [%		
Phthalates	CAS No.	Sample 001+003 +005	Sample 002	Sample 004	Limit [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Diisobutylphthalate, (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DHEXP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-n-pentyl phthalates (DPENP)	131-18-0	N.D.	N.D.	N.D.	<0.1
Conclusion		Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

<sup>2. &</sup>quot;<" denotes less than

<sup>3. &</sup>quot;N.D." denotes Not Detected with Detection Limit 0.005%

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### 3.9 U.S. CFR Title 16 Part 1307 - Phthalates Content

CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates [Reporting Limit = 0.005%]

		F	Results [%		
Phthalates	CAS No.	Sample 007	Sample 008+010 +011	Sample 009	Limit [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Diisobutylphthalate, (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DHEXP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-n-pentyl phthalates (DPENP)	131-18-0	N.D.	N.D.	N.D.	<0.1
Conclusion		Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

<sup>2. &</sup>quot;<" denotes less than

<sup>3. &</sup>quot;N.D." denotes Not Detected with Detection Limit 0.005%

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### 3.9 U.S. CFR Title 16 Part 1307 - Phthalates Content

CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates [Reporting Limit = 0.005%]

	CAS No.	Results [%]			
Phthalates		Sample 013	Sample 016+017 +018	Sample 019+020	Limit [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	N.D.	<0.1
Diisobutylphthalate, (DIBP)	84-69-5	N.D.	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DHEXP)	84-75-3	N.D.	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	N.D.	<0.1
Di-n-pentyl phthalates (DPENP)	131-18-0	N.D.	N.D.	N.D.	<0.1
Conclusion		Pass	Pass	Pass	-

Note 1. "%" denotes percentage by weight

<sup>2. &</sup>quot;<" denotes less than

<sup>3. &</sup>quot;N.D." denotes Not Detected with Detection Limit 0.005%

Dated: 2019-08-15



# 3.10 Tungsten Content Test

Test method: EPA 3050B:1996, analyzed by Inductively Coupled Plasma Optical Emission

Spectrometer (ICP-OES). [Reporting Limit: 10.0mg/kg]

Test Item	Results [mg/kg]	Client's
	Sample 006	Specification [mg/kg]
Tungsten	N.D.	-
Conclusion	Report as is	-

### Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 10.0mg/kg

-- END OF TEST REPORT--

