Dated: 2019-09-09



**Applicant** Spector & Co

**Address** 

**Sample Description BALLPOINT PEN** 

Item No. G3373

Style No. **RENZO** 

**Supplier USC043** 

**Country of Origin** China

**Exported to** Canada & U.S.A.

**Test Sample Receipt Date, Location** 2019-06-17, 2019-06-28, 2019-09-04, Shenzhen

**Test Period, Location** From 2019-06-17 to 2019-09-06, Shenzhen

Test Result(s) Refer to Section 3

# Purpose Of Examination / Conclusion:

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

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Dated: 2019-09-09



No.	Test Item(s)	Conclusion
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%.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch TÜV SÜD Group

Prepared by:

Reviewed by:

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<Cara Xiang>

<Senior Project Coordinator>

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Dated: 2019-09-09



# 1. Description of the Test Sample:

Sample Description	BALLPOINT PEN

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

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Black coating (Pen body)	
T2	002	Golden metal (Pen body)	
Т3	003	Silvery metal (Top, ring & end)	
T4	004	Silvery metal (Clip)	
T5	005	Silvery metal (Tube inner body)	
T6	006	Silvery metal (Tip)	
T7	007	Silvery metal (Ball on tip)	
Т8	008	Blue plastic (End of tube)	
Т9	009	Silvery metal (Spring)	
T10	010	Blue ink	
T11	011	Golden metal (Top, ring & end)	
T12	012	Golden metal (Clip)	8 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 73
T13	013	Black plastic (Tube inner body)	
T14	014	Black ink	
T15	015	Silvery-black metal (Top, ring & end)	
T16	016	Silvery-black metal (Clip)	
T17	017	Golden metal (Nut inner body)	

Dated: 2019-09-09



#### 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]

		Client's		
Test item	Sample 002	Sample 003	Sample 004	Specification [mg/kg]
Cadmium	N.D.	18.3	N.D.	<75
Conclusion	Pass	Pass	Pass	-

	//	Results [mg/kg]		
Test item	Sample 005	Sample 006	Sample 007	Specification [mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

		Results [mg/kg]		
Test item	Sample S	Sample 009	Sample 011	Specification [mg/kg]
	008+013			
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

		Client's		
Test item	Sample	Sample	Sample	Specification
	012	015	016	[mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

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

#### Note:

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

Dated: 2019-09-09



# 3.2 US California Proposition 65 - Total Cadmium 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 001	Sample 010	Sample 014	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



Dated: 2019-09-09



# 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]			Client's
Test Item	Sample 002	Sample 003	Sample 004	Specification [mg/kg]
Lead	N.D.	24.2	N.D.	<100
Conclusion	Pass	Pass	Pass	-

		Client's		
Test Item	Sample 005	Sample 006	Sample 007	Specification [mg/kg]
Lead	N.D.	N.D.	23.9	<100
Conclusion	Pass	Pass	Pass	-

	Results [mg/kg]			Client's
Test Item	Sample 008+013	Sample 009	Sample 011	Specification [mg/kg]
Lead	N.D.	N.D.	17.8	<100
Conclusion	Pass	Pass	Pass	-

		Client's		
Test Item	Sample 012	Sample 015	Sample 016	Specification [mg/kg]
Lead	N.D.	N.D.	24.5	<100
Conclusion	Pass	Pass	Pass	-

	Results [mg/kg]	Client's	
Test Item	Sample	Specification	
	017	[mg/kg]	
Lead	N.D.	<100	
Conclusion	Pass	-	

#### Note:

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

Dated: 2019-09-09



# 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]

	F	Client's		
Test Item	Sample 001	Sample 010	Sample 014	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



Dated: 2019-09-09



## 3.5 Total Lead Content Test

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	002	003		
Lead	N.D.	N.D.	24.2		
Limit		<90			
Conclusion	Pass	Pass	Pass		

,	/ /	Result [mg/kg]				
Analyte	Sample	Sample	Sample			
	004	005	006			
Lead	N.D.	N.D.	N.D.			
Limit		<90				
Conclusion	Pass	Pass	Pass			

	Result [mg/kg]						
Analyte	Sample 007	Sample 009					
Lead	23.9	N.D.	N.D.				
Limit		<90					
Conclusion	Pass Pass Pass						

	Result [mg/kg]				
Analyte	Sample	Sample	Sample		
	010	011	012		
Lead	N.D.	17.8	N.D.		
Limit	<90				
Conclusion	Pass	Pass	Pass		

		Result [mg/kg]					
Analyte	Sample	Sample	Sample	Sample			
	014	015	016	017			
Lead	N.D.	N.D.	24.5	N.D.			
Limit		<90					
Conclusion	Pass	Pass 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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## 3.6 Total Lead Content Test

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

		Result [mg/kg]				
Analyte	Sample 001	Sample 010	Sample 014			
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



Dated: 2019-09-09



## 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	Sample	Sample	Specification
		001	008+013	010	[%]
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		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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#### 3.7 Phthalates Content

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

Test Items	CAS No.	Results [%] Sample 014	Client's Specification [%]
Di-(2-ethylhexyl)-phthalat (DEHP)	117-81-7	N.D.	<0.1
Dibutylbenzylphthalat (DBP)	84-74-2	N.D.	<0.1
Diethyl phthalate (DEP)	84-66-2	N.D.	<0.1
Butylbenzylphthalat (BBP)	85-68-7	N.D.	<0.1
Di-iso-butylphthalat (DIBP)	84-69-5	N.D.	<0.1
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	N.D.	<0.1
Di-isodecylphthalat (DIDP)	26761-40-0 , 68515-49-1	N.D.	<0.1
Di-n-octylphthalat (DNOP)	117-84-0	N.D.	<0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	<0.1
Di-n-pentyphthalat (DNPP)	131-18-0	N.D.	<0.1
Conclusion	1	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: 2019-09-09



# 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 001	Sample 008+013	Sample 010	Specification [%]
		001	0001013	010	[ /0]
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	-

Test Items	CAS No.	Results [%] Sample 014	Client's Specification [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	<0.1
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	N.D.	<0.1
Di-n-hexyl phthalate (DNHP)	84-75-3	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	<0.1
Conclusion		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%]

	CAS No.	Results [%]			Limit
Phthalates		Sample 001	Sample 008+013	Sample 010	[%]
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: 2019-09-09



# 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%]

Phthalates	CAS No.	Results [%] Sample 014	Limit [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	<0.1
Diisobutylphthalate, (DIBP)	84-69-5	N.D.	<0.1
Di-n-hexyl phthalate (DHEXP)	84-75-3	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	<0.1
Di-n-pentyl phthalates (DPENP)	131-18-0	N.D.	<0.1
Conclusion		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: 2019-09-09



# 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]

	Results [mg/kg]	Client's
Test Item	Sample 002	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--**

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