Dated: 2021-04-23



Applicant : Spector & Co

Address : /

Sample Description : PEN

Product Type / End Use : WRITING INSTRUMENT

Item No. : G1279

Style No. : MAVIS

Supplier : USY007

Country of Origin : China

Country of Destination : Canada & U.S.A.

Test Sample Receipt Date, Location : 2021-04-13, Shenzhen

Test Period, Location : From 2021-04-13 to 2021-04-22, Shenzhen

Test Result(s) : Refer to Section 3

Laboratory:

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Purpose Of Examination / Conclusion:

No.	Test Item(s)	Conclusion
1.	US California Proposition 65 - Total Cadmium Content Test - Substrate	Pass*
'-	Materials	F a 5 5
2.	US California Proposition 65 - Total Cadmium Content Test - Paint and	Pass*
۷.	Similar Surface-Coating Materials	1 833
3.	US California Proposition 65 - Total Lead Content Test - Substrate	Pass*
	Materials	1 455
4.	US California Proposition 65 - Total Lead Content Test - Paint and Similar	Pass*
	Surface-Coating Materials	1 000
5.	Canadian Consumer Products Containing Lead Regulations SOR/2018-	Pass
	83 - Total Lead Content Test	
6.	Canadian Surface Coating Materials Regulations SOR/2016-193 –	Pass
	Total Lead Content Test	1 400
7.	Phthalates Content (11P)	Pass*
8.	US California Proposition 65 - Phthalates Content (6P)	Pass*
9.	U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates	Pass
9.	Content (8P)	Fa55
10.	Tungsten Content Test	Report As Is
11.	Canadian Surface Coating Materials Regulations SOR/2016-193 -	Pass
11.	Total Mercury Content Test	r ass
12.	Nickel 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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Prepared by: Reviewed by:

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Dated: 2021-04-23



Corra



Ken

<Cara Xiang>
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<Project Manager>

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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	Transparent coating (Grip)	
T2	002	Grey plastic (Grip & clip)	
Т3	003	Green plastic (Grip & clip)	003 004 005 006
T4	004	Black plastic (Grip & clip)	
T5	005	Orange plastic (Grip & clip)	8 9 50 1 2 3 4 5 6 7 8 9 60 1 3 4 5 6 7 8 9 70 1 2 3 4 5 6 7 8 9 80 901
Т6	006	Dark blue plastic (Grip & clip)	001
Т7	007	Red plastic (Grip & clip)	
Т8	008	White plastic (Barrel)	009
Т9	009	Silvery plated translucent white plastic (Top of pen, ring & end of pen)	V V V V V V V V V V V V V V V V V V V

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Dated: 2021-04-23



T. No.	Sample No.	Colour and Description	Photograph
T10	010	Off white plastic (Parts)	010
T11	011	White plastic (Parts)	
T12	012	Silvery metal (Spring)	
T13	013	Silvery metal (Tip of refill)	013 012
T14	014	Silvery metal (Ball of refill)	015
T15	015	White plastic (Refill)	014
T16	016	Blue ink (Ink)	011
T17	017	Silvery metal (Short spring)	018 017
T18	018	Black plastic (Parts)	

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Dated: 2021-04-23



T. No.	Sample No.	Colour and Description	Photograph
T19	019	Grey plastic (Parts)	019

Remark:

The materials of sample 011-016 claimed by the client are as same as sample 011-016 of technical report 68.431.21.01947.01 issued on 2021-04-08, which means both samples have the same composition, supplier and color, the only difference lies in sample shape. The test data is quoted from the latter one.

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Dated: 2021-04-23



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]

	I	Client's		
Test item	Sample 001	Sample 001	Sample 001	Specification [mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

		Results [mg/kg]		
Test item	Sample 001	Sample 001	Sample 001	Specification [mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

		Client's		
Test item	Sample 001	Sample 001	Sample 001	Specification [mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

	Results	Client's	
Test item	Sample	Sample	Specification
	001	001	[mg/kg]
Cadmium	N.D.	N.D.	<75
Conclusion	Pass	Pass	-

Test item	Results [mg/kg] Sample 001	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

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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]

	I	Client's		
Test Item	Sample 001	Sample 001	Sample 001	Specification [mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

	//	Results [mg/kg]		
Test Item	Sample 001	Sample 001	Sample 001	Specification [mg/kg]
Cadmium	N.D.	N.D.	N.D.	<75
Conclusion	Pass	Pass	Pass	-

	Results [mg/kg]			Client's	
Test Item		Sample 001	Sample 001	Sample 001	Specification [mg/kg]
Cadmium		N.D.	N.D.	N.D.	<75
Conclusion		Pass	Pass	Pass	-

	Results	Client's	
Test Item	Sample 001	Sample 001	Specification [mg/kg]
Cadmium	N.D.	N.D.	<75
Conclusion	Pass	Pass	-

Test Item	Results [mg/kg] Sample	Client's Specification
Cadmium	001 N.D.	[mg/kg] <75
Conclusion	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]			Client's
Test Item	Sample 001	Sample 001	Specification [mg/kg]	
Lead	N.D.	N.D.	N.D.	<100
Conclusion	Pass	Pass	Pass	-

		Results [mg/kg]		
Test Item	Sample 001	Sample 001	Sample 001	Specification [mg/kg]
Lead	N.D.	N.D.	N.D.	<100
Conclusion	Pass	Pass	Pass	-

	Results [mg/kg]		
Sample 001	Sample 001	Sample 001	Specification [mg/kg]
N.D.	N.D.	N.D.	<100
Pass	Pass	Pass	-
	Sample 001 N.D.	Sample Sample 001 001 N.D. N.D.	Sample Sample Sample 001 001 001 N.D. N.D. N.D.

	Results	Client's	
Test Item	Sample 001	Sample 001	Specification [mg/kg]
Lead	N.D.	N.D.	<100
Conclusion	Pass	Pass	-

	Results [mg/kg]	Client's	
Test Item	Sample	Specification	
	001	[mg/kg]	
Lead	N.D.	<100	
Conclusion	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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3.4 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]			Client's
Test Item	Sample	Sample	Sample	Specification
	001	001	001	[mg/kg]
Lead	N.D.	N.D.	N.D.	<90
Conclusion	Pass	Pass	Pass	-

		Results [mg/kg]		
Test Item	Samp 001		e Sample 001	Specification [mg/kg]
Lead	N.D	. N.D.	N.D.	<90
Conclusion	Pas	s Pass	Pass	-

		Results [mg/kg]		
Test Item	Sample	Sample	Sample	Specification
	001	001	001	[mg/kg]
Lead	N.D.	N.D.	N.D.	<90
Conclusion	Pass	Pass	Pass	-

	Results	Client's	
Test Item	Sample	Sample	Specification
	001	001	[mg/kg]
Lead	N.D.	N.D.	<90
Conclusion	Pass	Pass	-

	Results [mg/kg]	Client's
Test Item	Sample	Specification
	001	[mg/kg]
Lead	N.D.	<90
Conclusion	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 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 001	Sample 001	Sample 001		
Lead	N.D.	N.D.	N.D.		
Limit	<90				
Conclusion	Pass	Pass	Pass		

Analyte		Result [mg/kg]			
		Sample 001	Sample 001	Sample 001	
Lead		N.D.	N.D.	N.D.	
Limit		<90			
Conclusion		Pass	Pass	Pass	

		Result [mg/kg]				
Analyte	Sample 001	Sample 001	Sample 001			
Lead	N.D.	N.D.	N.D.			
Limit		<90				
Conclusion	Pass	Pass	Pass			

	Result	[mg/kg]			
Analyte	Sample	Sample			
	001	001			
Lead	N.D.	N.D.			
Limit	<	<90			
Conclusion	Pass	Pass			

	Result [mg/kg]
Analyte	Sample
	001
Lead	N.D.
Limit	<90
Conclusion	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	Sample	Sample		
	001	001 001 001			
Lead	N.D.	N.D.	N.D.		
Limit		<90			
Conclusion	Pass	Pass	Pass		

	Result [mg/kg]			
Analyte	Sample 001	Sample 001	Sample 001	
Lead	N.D.	N.D.	N.D.	
Limit	<90			
Conclusion	Pass	Pass	Pass	

		Result [mg/kg]				
Analyte	Sample 001	Sample 001	Sample 001			
Lead	N.D.	N.D.	N.D.			
Limit		<90				
Conclusion	Pass	Pass Pass Pass				

	Result	[mg/kg]
Analyte	Sample	Sample
	001	001
Lead	N.D.	N.D.
Limit	</td <td>90</td>	90
Conclusion	Pass	Pass

	Result [mg/kg]
Analyte	Sample
	001
Lead	N.D.
Limit	<90
Conclusion	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 (11P)

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	Sample 001	Sample 001	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%

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Dated: 2021-04-23



3.7 Phthalates Content (11P)

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

		Resul	Client's	
Test Items	CAS No.	Sample 001	Sample 001	Specification [%]
Di-(2-ethylhexyl)-phthalat (DEHP)	117-81-7	N.D.	N.D.	<0.1
Dibutylbenzylphthalat (DBP)	84-74-2	N.D.	N.D.	<0.1
Diethyl phthalate (DEP)	84-66-2	N.D.	N.D.	<0.1
Butylbenzylphthalat (BBP)	85-68-7	N.D.	N.D.	<0.1
Di-iso-butylphthalat (DIBP)	84-69-5	N.D.	N.D.	<0.1
Di-isononyl phthalate (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	<0.1
Di-isodecylphthalat (DIDP)	26761-40-0 , 68515-49-1	N.D.	N.D.	<0.1
Di-n-octylphthalat (DNOP)	117-84-0	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DnHP)	84-75-3	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	<0.1
Di-n-pentyphthalat (DNPP)	131-18-0	N.D.	N.D.	<0.1
Conclusion	•	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 (11P)

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	Specification
		001	[%]
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		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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Dated: 2021-04-23



US California Proposition 65 - Phthalates Content (6P) 3.8

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 001	Sample 001	Specification [%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	<mark>117-81-7</mark>	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)	<mark>84-75-3</mark>	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	-

	SOL	F	Results [%	Client's	
Test Items	CAS No.	Sample 001	Sample 001	Sample 001	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)	<mark>85-68-7</mark>	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 (6P)

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

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

Test Items	CAS No.	Results [%] Sample 001	Client's Specification [%]
Dibutyl phthalate, (DBP)	<mark>84-74-2</mark>	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	<mark>117-81-7</mark>	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	<mark>85-68-7</mark>	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 - Toys and Childcare Articles - Phthalates Content (8P) CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates [Reporting Limit = 0.005%]

		Results [%	Limit		
Phthalates	CAS No.	Sample 001	Sample 001	Sample 001	[%]
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

- 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 - Toys and Childcare Articles - Phthalates Content (8P) CPSC-CH-C1001-09.4 – Standard Operating Procedure for Determination of Phthalates [Reporting Limit = 0.005%]

	Result		ts [%]	Limit
Phthalates	CAS No.	Sample 001	Sample 001	[%]
Dibutyl phthalate, (DBP)	84-74-2	N.D.	N.D.	<0.1
Benzyl butyl phthalate, (BBP)	85-68-7	N.D.	N.D.	<0.1
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	N.D.	N.D.	<0.1
Diisobutylphthalate, (DIBP)	84-69-5	N.D.	N.D.	<0.1
Di-n-hexyl phthalate (DHEXP)	84-75-3	N.D.	N.D.	<0.1
Dicyclohexyl phthalate (DCHP)	84-61-7	N.D.	N.D.	<0.1
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	N.D.	N.D.	<0.1
Di-n-pentyl phthalates (DPENP)	131-18-0	N.D.	N.D.	<0.1
Conclusion		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 - Toys and Childcare Articles - Phthalates Content (8P) CPSC-CH-C1001-09.4 - Standard Operating Procedure for Determination of Phthalates

[Reporting Limit = 0.005%]

Phthalates	CAS No.	Results [%] Sample 001	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

- 2. "<" denotes less than
- 3. "N.D." denotes Not Detected with Detection Limit 0.005%

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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



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Dated: 2021-04-23



3.11 Total Mercury 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]

	Results [mg/kg]			Limit
Test Item	Sample 001	Sample 001	Sample 001	[mg/kg]
Mercury	N.D.	N.D.	N.D.	<10
Conclusion	Pass	Pass	Pass	-

	Results	Results [mg/kg]			
Test Item	Sample 001				
Mercury	N.D.	N.D.	<10		
Conclusion	Pass	Pass	-		

Test Item	Results [mg/kg] Sample 001	Limit [mg/kg]
Mercury	N.D.	<10
Conclusion	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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Dated: 2021-04-23



3.12 Nickel Content Test

Test method: Acid digestion and analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES). [Reporting Limit: 5.0mg/kg]

Test Item	Results [mg/kg]			Client's
	Sample 001	Sample 001	Sample 001	Specification [mg/kg]
Nickel	N.D.	N.D.	N.D.	-
Conclusion	Report As Is	Report As Is	Report As Is	-

Test Item		Results	Client's	
		Sample 001	Sample 001	Specification [mg/kg]
Nickel		N.D.	N.D.	-
Conclusion		Report As Is	Report As Is	-

Test Item	Results [mg/kg]	Client's
	Sample 001	Specification [mg/kg]
Nickel	N.D.	-
Conclusion	Report As Is	-

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than
- "N.D." denotes Not Detected with Detection Limit 5.0mg/kg

-- END OF TEST REPORT--

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