

Test Report

No.: 68.431.22.3760.01

Date: 2022-08-25



Greater China

Applicant: Spector & Co
Address: /
Product Name: PUSH ACTION R-ABS BALLPEN
End Use: WRITING INSTRUMENT
Item No.: EC1010
Style No.: KANE
Supplier: USS049
Country of Origin: CHINA
Country of Destination: CANADA & U.S.A.
Receipt Date of Sample: 2022-08-09, 2022-08-19
Date of Testing: From 2022-08-09 to 2022-08-25
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Test Item	Conclusion
1. US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials	Pass*
2. US California Proposition 65 - Total Cadmium Content Test - Substrate Materials	Pass*
3. US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating Materials	Pass*
4. US California Proposition 65 - Total Lead Content Test - Substrate Materials	Pass*
5. Phthalates Content (11P)	Pass*
6. U.S. CFR Title 16 Part 1307 – Toys and Childcare Articles – Phthalates Content (8P)	Pass
7. US California Proposition 65 - Phthalates Content (6P)	Pass*
8. Tungsten Content Test	Report As Is
9. Total Nickel Content Test	Report As Is
10. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 – Total Lead Content Test	Pass
11. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Lead Content Test	Pass
12. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Mercury Content Test	Pass

Remarks: 1. MDL = Method Detection Limit
2. N.D. = Not Detected (<MDL)
3. ≤ Less than
4. 1 mg/kg = 1 ppm = 0.0001%
5. NA=Not Applicable

Laboratory:
TÜV SÜD Certification and Testing (China) Co., Ltd.
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Note:

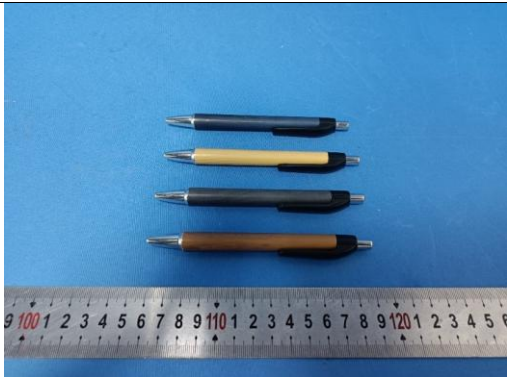


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- (4) If relevant standards do not specify decision rule(s), follow decision rule as below:
 - "Pass" means that the measured result is within the limits, even when extended by expanded uncertainty at a level of confidence of 95%.
 - "Fail" means that the measured result is beyond the limit, even when extended by expanded uncertainty at a level of confidence of 95%.
- (5) The test item and sample were specified by the client.
- (6) "*" denotes the conclusion was drawn according to the client's specification.




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Description of Tested Subject:

Sample	Description	Photo
A	PUSH ACTION R-ABS BALLPEN	
001	Grey coating (On pen)	
002	White plastic (Pen)	
003	Black plastic (Pen)	
004	Bright silver color metal (End & head)	
005	Pale white plastic (End)	
006	Matt-black plastic (Head)	
007	Silver color metal (Spring)	
008	Grey plastic (Refill)	
009	Blue ink (In refill)	

Sample	Description	Photo
010	Bright black plastic (Part)	
011	Dark blue/ blue coating (On pen)	
012	Khaki coating (On pen)	

Sample	Description	Photo
013	Brown coating (On pen)	
014	Silver color metal (Nib)	

T. No	Sample	Description
T1	001	Grey coating (On pen)
T2	002	White plastic (Pen)
T3	003	Black plastic (Pen)
T4	004	Bright silver color metal (End & head)
T5	005	Pale white plastic (End)
T6	006	Matt-black plastic (Head)
T7	007	Silver color metal (Spring)
T8	008	Grey plastic (Refill)
T9	009	Blue ink (In refill)
T10	010	Bright black plastic (Part)
T11	011	Dark blue/ blue coating (On pen)
T12	012	Khaki coating (On pen)
T13	013	Brown coating (On pen)
T14	014	Silver color metal (Nib)

Test Result(s):

1. US California Proposition 65 - Total Cadmium Content Test - Paint and Similar Surface-Coating Materials

Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
001+011	mg/kg	10	75	N.D.	Pass
009	mg/kg	10	75	N.D.	Pass
012+013	mg/kg	10	75	N.D.	Pass

2. US California Proposition 65 - Total Cadmium Content Test - Substrate Materials

Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
002+003+005	mg/kg	10	75	N.D.	Pass
004	mg/kg	10	75	N.D.	Pass
006+008+010	mg/kg	10	75	N.D.	Pass
007	mg/kg	10	75	N.D.	Pass
014	mg/kg	10	75	N.D.	Pass

3. US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating Materials

Test method: Acid digestion or microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
001+011	mg/kg	10	90	N.D.	Pass
009	mg/kg	10	90	N.D.	Pass
012+013	mg/kg	10	90	N.D.	Pass

4. 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).

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
002+003+005	mg/kg	10	100	N.D.	Pass
004	mg/kg	10	100	N.D.	Pass
006+008+010	mg/kg	10	100	N.D.	Pass
007	mg/kg	10	100	N.D.	Pass
014	mg/kg	10	100	24.5	Pass

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5. Phthalates Content (11P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					001+011	002+003+005
Diethyl phthalate(DEP)	84-66-2	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
Conclusion					Pass	Pass

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					006+008+010	009
Diethyl phthalate(DEP)	84-66-2	%	0.005	0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	N.D.

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Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	N.D.
Conclusion					Pass	Pass

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					012+013	
Diethyl phthalate(DEP)	84-66-2	%	0.005	0.1	N.D.	
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	N.D.	
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	
Di-n-octyl phthalate, (DNOP)	117-84-0	%	0.005	0.1	N.D.	
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	N.D.	
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	N.D.	
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	0.1	N.D.	
Conclusion					Pass	

6. U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					001+011	002+003+005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	<0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	<0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	<0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	<0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	<0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	<0.1	N.D.	N.D.
Di-isononyl phthalate,	28553-12-0 ,	%	0.005	<0.1	N.D.	N.D.

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(DINP)	68515-48-0					
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	<0.1	N.D.	N.D.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					006+008+010	009
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	<0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	<0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	<0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	<0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	<0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	<0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	<0.1	N.D.	N.D.
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	<0.1	N.D.	N.D.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					012+013	
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	<0.1	N.D.	
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	<0.1	N.D.	
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	<0.1	N.D.	
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	<0.1	N.D.	
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	<0.1	N.D.	
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	<0.1	N.D.	
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	<0.1	N.D.	
Di-n-pentyl phthalates (DnPP)	131-18-0	%	0.005	<0.1	N.D.	
Conclusion					Pass	

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7. US California Proposition 65 - Phthalates Content (6P)

Test with reference to in-house method, solvent extracted and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					001+011	002+003+005
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	<0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	<0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	<0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	<0.1	N.D.	N.D.
Di-n-hexyl phthalate (DNHP)	84-75-3	%	0.005	<0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	<0.1	N.D.	N.D.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					006+008+010	009
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	<0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	<0.1	N.D.	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	<0.1	N.D.	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	<0.1	N.D.	N.D.
Di-n-hexyl phthalate (DNHP)	84-75-3	%	0.005	<0.1	N.D.	N.D.
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	<0.1	N.D.	N.D.
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Client's Limit	Result(s)
					012+013
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	<0.1	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	<0.1	N.D.
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	<0.1	N.D.
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	<0.1	N.D.
Di-n-hexyl phthalate	84-75-3	%	0.005	<0.1	N.D.

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(DNHP)					
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	<0.1	N.D.
Conclusion					Pass

8. Tungsten Content Test

Test with reference to acid digestion and determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					014	
Tungsten(W)	-	mg/kg	10.0	-	N.D.	
Conclusion					Report As Is	

9. Total Nickel Content Test

Test method: Acid digestion and analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					004	007
Ni	7440-02-0	mg/kg	5.0	-	10628.319	115.042
Conclusion					Report As Is	Report As Is

Compound	CAS No.	Unit	MDL	Client's Limit	Result(s)	
					014	
Ni	7440-02-0	mg/kg	5.0	-	5.008	
Conclusion					Report As Is	

10. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test

Test method: Acid digestion or microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+011	mg/kg	10	90	N.D.	Pass
002+003+005	mg/kg	10	90	N.D.	Pass
004	mg/kg	10	90	N.D.	Pass
006+008+010	mg/kg	10	90	N.D.	Pass
007	mg/kg	10	90	N.D.	Pass
009	mg/kg	10	90	N.D.	Pass
012+013	mg/kg	10	90	N.D.	Pass
014	mg/kg	10	90	24.5	Pass

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Guangdong, China

11. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Lead Content Test

Test method: Acid digestion or microwave Digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+011	mg/kg	10	90	N.D.	Pass
009	mg/kg	10	90	N.D.	Pass
012+013	mg/kg	10	90	N.D.	Pass

12. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Mercury Content Test

Test with reference to microwave digestion, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001	mg/kg	10	10.0	N.D.	Pass
011	mg/kg	10	10.0	N.D.	Pass
012	mg/kg	10	10.0	N.D.	Pass
013	mg/kg	10	10.0	N.D.	Pass

-End of Test Report-