Date: 2024-01-24



Applicant: Spector & CO

Address:

Product Name: 600 ML / 20 OZ DOUBLE WALL VACCUM INSULATED BOTTLE

End Use: DRINKWARE Item No.: DW306

Style No.: TOP NOTCH REFLECTIONL

Supplier: USS049
Country of Origin: CHINA

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

Receipt Date of Sample: 2023-12-08, 2024-01-09

Date of Testing: From 2023-12-08 to 2024-01-24

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.	Tungsten Content Test	See Test Result
7.	Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Mercury Content Test	Pass
8.	Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Lead Content Test	Pass
9.	Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test	Pass
10.	Total Nickel Content Test	See Test Result
11.	U.S. CFR Title 16 Part 1307 - Toys and Childcare Articles - Phthalates Content (8P)	Pass
12.	US California Proposition 65 - Phthalates Content (6P)	Pass*
13.	Bisphenol A Content	Pass*
14.	FDA CFR Title 21 Part 177.1210 (Only test Chloroform extractives in Distilled water, 8% Ethanol)	Pass
15.	FDA CFR Title 21 Part 177.1520	Pass
16.	Total Chromium	Pass

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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

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Prepared by:

Authorized by:

gys (C



Shu, Steven Senior Project Coordinator

Steven Sh

Huang, Jessica Senior Project Coordinator

Note:

(1) The TÜV SÜD Certification and Testing (China) Co., Ltd. "General Terms & Conditions" applied.

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For further details, please see "Testing and certification regulation", chapter A-3.4

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(2) The results relate only to the Items tested.

(3) The test report shall not be reproduced except in full without the written approval of the laboratory

(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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Date: 2024-01-24



Description of Tested Subject:

Sample	Description	Photo
A	Whole product	2345678300-274567897012345678300123456780012345678000012345678000000000000000000000000000000000000
001	Transparent golden coating (On cap)	
002	Silver color metal (Cap)	
003	Black PP-HO plastic (Cap)	4998
004	Translucent white silicone (Sealing ring)	8 9 60 1 2 3 4 5 6 7 8 9 70 1 2 3 4 5 6 7 8 9 80 1 2 3 4 5

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Sample	Description	Photo
005	Black coating (On body)	2945675060 73456789701234567898012345678380123456
006	Silver color metal (Outside body)	012345675360-2245678970123456783801234567889912345678
007	Silver stainless steel 304 (Inner body)	

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Date: 2024-01-24



Sample	Description	Photo
008	Black/ golden coating (On bottle)	9/2345675960-2245678970123456753801234567639612345675
009	Black coating (On body)	3 4 5 6 7 8 9 60 1 2 3 4 5 6 7 8 9 70 1 2 3 4 5 6 7 8 9 80 1 2 3

T. No	Sample	Description
T1	001	Transparent golden coating (On cap)
T2	002	Silver color metal (Cap)
Т3	003	Black PP-HO plastic (Cap)
T4	004	Translucent white silicone (Sealing ring)
T5	005	Black coating (On body)
T6	006	Silver color metal (Outside body)
T7	007	Silver stainless steel 304 (Inner body)
T8	800	Black/ golden coating (On bottle)
Т9	009	Black coating (On body)

Remark: Sample 003 & 009 were received on 2023-01-09.

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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+005	mg/kg	10	75	N.D.	Pass
009	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	mg/kg	10	75	N.D.	Pass
003+004	mg/kg	10	75	N.D.	Pass
006	mg/kg	10	75	N.D.	Pass
007	mg/kg	10	75	N.D.	Pass

US California Proposition 65 - Total Lead 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+005	mg/kg	10	90	N.D.	Pass
009	mg/kg	10	90	N.D.	Pass

4. US California Proposition 65 - Total Lead 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	mg/kg	10	100	N.D.	Pass
003+004	mg/kg	10	100	N.D.	Pass
006	mg/kg	10	100	N.D.	Pass
007	mg/kg	10	100	N.D.	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).

Doromotor	CAS No.	Unit	MDL	Client's	Result(s)		
Parameter	CAS NO.	Unit			003+004	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	%	0.005	0.1	N.D.	N.D.	
Di-isodecyl phthalate, (DIDP)	26761-40-0	%	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						

6. Tungsten Content Test

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

	Maximum		Maximum	Result(s)
Test items	Unit	MDL	Permissible Limit	006
Tungsten(W)	mg/kg	10.0	-	N.D.
Cond	clusion	1	1	Report As Is

7. Canadian Surface Coating Materials Regulations SOR/2016-193 - Total Mercury Content Test Test with reference to microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+005	mg/kg	10	10.0	N.D.	Pass
009	mg/kg	10	10.0	N.D.	Pass

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

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

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+005	mg/kg	10	90	N.D.	Pass
009	mg/kg	10	90	N.D.	Pass

9. Canadian Consumer Products Containing Lead Regulations SOR/2018-83 - Total Lead Content Test Test with reference to acid digestion or microwave digestion, determination by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Sample	Unit	MDL	Limit	Result(s)	Conclusion
001+005	mg/kg	10	90	N.D.	Pass
002	mg/kg	10	90	N.D.	Pass
003+004	mg/kg	10	90	N.D.	Pass
006	mg/kg	10	90	N.D.	Pass
007	mg/kg	10	90	N.D.	Pass
009	mg/kg	10	90	N.D.	Pass

10. **Total Nickel Content Test**

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

Sample	Unit	MDL	Limit	Result(s)	Conclusion
002	mg/kg	5		10581.366	Report As Is
006	mg/kg	5		10120.707	Report As Is
007	mg/kg	5		75896.806	Report As Is

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11. 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).

Doromotor	CAS No.	l lm:4	MDI	MDL Limit	Result(s)	
Parameter	CAS NO.	Unit	MDL		003+004	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	%	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	1			Pass	Pass

12. 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	Resu	ılt(s)
Parameter	CAS NO.	OTHE WIDE		Limit	003+004	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	%	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	%	0.005	0.1	N.D.	N.D.
	Conclusion					Pass

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13. **Bisphenol A Content**

Test method: With reference to In house method followed by LC-MSMS analysis.

Compound	CAS No.	Unit	MDL Client's Result 1003	MDI	Client's	Resu	ılt(s)
	CAS NO.	Onit		004			
Bisphenol A	80-05-7	mg/kg	0.1	0.1	N.D.	N.D.	
Conclusion				Pass	Pass		

Compound	CAS No.	Unit	nit MDL Client's Ro		Res	ult(s)
	CAS NO.	Offic	MIDL	Limit	008 009	009
Bisphenol A	80-05-7	mg/kg	0.1	0.1	N.D.	N.D.
	Conclusion	ì	•		Pass	Pass

FDA CFR Title 21 Part 177.1210 (Only test Chloroform extractives in Distilled water, 8% Ethanol) 14.

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1210

		RESULT [ppm]	CFR
TEST ITEMS	TEST CONDITIONS	SAMPLE 004	Specification [ppm]
Chloroform extractives in Distilled water	Fill boiling water and then cool to 100 °F	<10	50
Chloroform extractives in 8% Ethanol	Fill boiling 8% ethanol and then cool to 100 °F	<10	50
Conclusion		Pass	-

Note:

- "ppm" denotes part per million 1.
- 2. "<" denotes less than
- "oF" denotes degree Fahrenheit
- The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.1210

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15. FDA CFR Title 21 Part 177.1520

Test for compliance with the selected requirement(s) in U.S. F.D.A. C.F.R. 21. Part 177.1520

TEST ITEMS	RESULTS SAMPLE 003	CFR Specification [PP Homopolymer]
Density [g/cc]	0.909	0.880 - 0.913
Melting Point Range [°C]	164-173	160 - 180
Maximum extractive in n-hexane after reflux	<1.00	6.4
for 2 hours [%]	<1.00	0.4
Maximum extractive in xylene after		
Dissolved completely at 120°C and 25°C	1.04	9.8
for 1 hour [%]		
Conclusion	Pass	-

Note:

- 1. "%" denotes percentage by weight
- 2. "g/cc" denotes gram per cubic centimeter
- 3. "<" denotes less than
- 4. "°C" denotes degree Celsius
- 5. The specification is quoted from U.S. F.D.A. C.F.R. 21. Part 177.1520

16. Total Chromium Content

Test for compliance with the selected requirement(s) in the General Recognized As Safe (GRAS) specification according to United State Food and Drug Administration (US FDA) Regulations on stainless steel Test Method: Digested by acid and analyzed by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES)

Analyte	Results [%]
Allalyte	Sample 007
Total Chromium(Cr)	17.87
Limit	Not less than 16
Conclusion	Pass

Note:

- "%" denotes percentage by weight

-End of Test Report-

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