Date: 2022-11-30



Greater China

Applicant: Spector & CO

Address:

Product Name: 600 ML / 20 OZ STAINLESS STEEL BOTTLE

End Use: **DRINKWARE**

Item No.: DW311

Style No.: EYE CANDY DOUBLE-DIP

Supplier: **USS149 Country of Origin: CHINA**

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

Receipt Date of Sample: 2022-10-31

Date of Testing: From 2022-10-31 to 2022-11-28

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	Report As Is
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	Report As Is
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.	FDA CFR Title 21 Part 177.1210	Pass
14.	FDA CFR Title 21 Part 177.1520	Pass
15.	Total Chromium	Pass

Remarks: 1. MDL = Method Detection Limit

2. N.D. = Not Detected (<MDL)

3. ≤ Less than

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electrical testing

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Lab 2 - Physical & Mechanical Test: Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report

No.: 68.431.22.4574.01

Date: 2022-11-30



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4. 1 mg/kg = 1 ppm = 0.0001%

5. NA=Not Applicable

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Prepared by:

Authorized by:

Lojo Zhao



Shu, Steven Senior Project Coordinator

Steven Sho

Jojo Zhao 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
 - For full version, please visit: EN: https://www.tuvsud.cn/zh-cn/resource/terms-and-conditions---en; SCN: https://www.tuvsud.cn/zh-cn/terms-and-conditions; TCN: https://www.tuvsud.com/zh-tw/terms-and-conditions
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- (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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Description of Tested Subject:

Sample	Description	Photo				
A	Whole product					
001	Black PP-HO plastic (Lid)					
002	Grey silicone (Sealing ring)	23456769901234567696012345676970123456789301234567				

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		Greater C
003	Silvery 304 stainless steel metal (Inner wall)	
004	Black printed white plastic sticker (QR code sticker)	
005	Red coating (Bottle)	
006	Orange coating (Bottle)	

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Blue coating (Bottle)	
Green coating (Bottle)	
Black coating (Bottle)	
Silvery coating (Bottle)	
	Green coating (Bottle) Black coating (Bottle)

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T. No	Sample	Description
T1	001	Black PP-HO plastic (Lid)
T2	002	Grey silicone (Sealing ring)
T3	003	Silvery 304 stainless steel metal (Inner wall)
T4	004	Black printed white plastic sticker (QR code sticker)
T5	005	Red coating (Bottle)
T6	006	Orange coating (Bottle)
T7	007	Blue coating (Bottle)
T8	800	Green coating (Bottle)
Т9	009	Black coating (Bottle)
T10	010	Silvery coating (Bottle)
T11	011	Black silicone w/ adhesive backing (Bottom pad)
T12	012	Black silicone (Handle)

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Test Result(s):

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

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
005+006+007	mg/kg	10	75	N.D.	Pass
008+009+010	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
001	mg/kg	10	75	N.D.	Pass
002	mg/kg	10	75	N.D.	Pass
003	mg/kg	10	75	N.D.	Pass
004	mg/kg	10	75	N.D.	Pass
011	mg/kg	10	75	N.D.	Pass
012	mg/kg	10	75	N.D.	Pass

US California Proposition 65 - Total Lead Content Test - Paint and Similar Surface-Coating Materials 3. 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
005+006+007	mg/kg	10	90	N.D.	Pass
008+009+010	mg/kg	10	90	N.D.	Pass

US California Proposition 65 - Total Lead Content Test - Substrate Materials 4.

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
001	mg/kg	10	100	N.D.	Pass
002	mg/kg	10	100	N.D.	Pass
003	mg/kg	10	100	N.D.	Pass
004	mg/kg	10	100	N.D.	Pass
011	mg/kg	10	100	N.D.	Pass
012	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).

Parameter	CAS No.	Unit	MDL	Client's	Result(s)	
Parameter	CAS NO.	Unit	MIDL	Limit	001	002
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

Doromotor	CAS No.	1110:4	MDI	Client's	Result(s)	
Parameter	CAS NO.	Unit	MDL	Limit	005+006+007	008+009+010
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,	26761-40-0 ,	%	0.005	0.1	N.D.	N.D.

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(DnPP)	Conclusion	1			Pass	Pass
Di-n-pentyl phthalates	131-18-0	%	0.005	0.1	N.D.	N.D.
(DIDP)	68515-49-1					

Doromotor	CACNO	l lmi4	MDI	Client's	Res	ult(s)
Parameter	CAS No.	Unit	MDL	Limit	011	012
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.
	Pass	Pass				

6. Tungsten Content Test

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

Test items	Unit	MDL	Limit	Result(s) 003
Tungsten(W)	mg/kg	10.0	-	N.D.
Cone	clusion		-	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
004	mg/kg	10	10.0	N.D.	Pass

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005	mg/kg	10	10.0	N.D.	Pass
006	mg/kg	10	10.0	N.D.	Pass
007	mg/kg	10	10.0	N.D.	Pass
800	mg/kg	10	10.0	N.D.	Pass
009	mg/kg	10	10.0	N.D.	Pass
010	mg/kg	10	10.0	N.D.	Pass

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
004	mg/kg	10	90	N.D.	Pass
005	mg/kg	10	90	N.D.	Pass
006	mg/kg	10	90	N.D.	Pass
007	mg/kg	10	90	N.D.	Pass
008	mg/kg	10	90	N.D.	Pass
009	mg/kg	10	90	N.D.	Pass
010	mg/kg	10	90	N.D.	Pass

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	mg/kg	10	90	N.D.	Pass
002	mg/kg	10	90	N.D.	Pass
003	mg/kg	10	90	N.D.	Pass
004	mg/kg	10	90	N.D.	Pass
005+006+007	mg/kg	10	90	N.D.	Pass
008+009+010	mg/kg	10	90	N.D.	Pass
011	mg/kg	10	90	N.D.	Pass
012	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
003	mg/kg	5	-	79509.018	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).

Parameter	CAS No.	l lmi4	MDL	Limit	Resi	ult(s)	
Parameter	CAS NO.	Unit	IVIDL	Limit	001	002	
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						

Parameter	CAS No.	Unit	MDL	Limit	Resi	ult(s)	
Parameter	CAS NO.	Offic	MIDL	Limit	005+006+007	008+009+010	
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						

Parameter	ter CAS No. Unit MDL Limit	Limit Result(s)		ult(s)		
rarameter	CAS NO.	Onit	IVIDL	Lillin	011	012
Benzyl butyl phthalate, (BBP)	85-68-7	%	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.
(DINP)	68515-48-0	,,,	2.300	0.1		
Di-isononyl phthalate,	28553-12-0 ,	%	0.005	0.1	N.D.	N.D.
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	0.005	0.1	N.D.	N.D.
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	N.D.	N.D.
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	N.D.	N.D.

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	Res	ult(s)
Parameter	CAS NO.	Offic	IVIDL	Limit	001	002
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 C	CAS No.	Unit	MDL	Client's	Result(s)	
Faranietei	CAS NO.	Ollit	IVIDL	Limit	005+006+007	008+009+010
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.

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Lab 1 - Chemical testing and part of electrical testing

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Lab 2 - Physical & Mechanical Test:

Date: 2022-11-30



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Conclusion			Pass	Pass		
(DINP)	68515-48-0	/0	0.003	0.1	N.D.	N.D.
Di-isononyl phthalate,	28553-12-0 ,	%	0.005	0.1	N.D.	N.D.

Parameter CAS	CAS No.	No. Unit	MDL	Client's	Result(s)	
	CAS NO.			Limit	011	012
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

13. FDA CFR Title 21 Part 177.1210

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 002	Specification [ppm]
Chloroform extractives in	Fill boiling water and	<10.0	50
Distilled water	then cool to 100 °F	<10.0	50
Chloroform extractives in	Fill boiling 8% ethanol	<10.0	50
8% Ethanol	and then cool to 100 °F	<10.0	50
Chloroform extractives in	120°F for 15 Minutes	<10.0	250
N-heptane	120 F IOI 15 Minutes	<10.0	250
Conclusion		Pass	-

Note:

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

14. 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	CFR Specification
TEST TIEWIS	SAMPLE 001	[PP Homopolymer]

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Density [g/cc]	0.900	0.880 - 0.913
Melting Point Range [°C]	168-171	160 - 180
Maximum extractive in n-hexane after reflux for 2 hours [%]	<1.00	6.4
Maximum extractive in xylene after reflux for 2 hours at 25 °C [%]	1.73	9.8
Conclusion	Pass	-

Note:

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

15. **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)

Analyta	Results [%]
Analyte	Sample 003
Total Chromium(Cr)	17.38
Limit	Not less than 16
Conclusion	Pass

Note:

"%" denotes percentage by weight

-End of Test Report-

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