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Applicant: Mid Ocean Brands B.V.

Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong

The following sample(s) and sample information was/were submitted and identified by client as:

Sample Name: RPET bottle with SS lid

Model/Style/Item #: MO6237

Receiving Date: 20-Feb-2023, 8-Mar-2023

Test Period: From 20-Feb-2023 to 8-Mar-2023

Add Information:

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
2	Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
3	Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) -Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006.	EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS	PASS



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#	Test Item(s)	Reference Standard/Method	Result
4	Overall migration - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245	EN 1186-1:2002 & EN 1186-3:2002	PASS
5	Specific migration of Heavy metal - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245	EN 13130-1: 2004, determined by ICP-OES	PASS
6	Specific migration of Primary Aromatic Amine - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213	EN 13130-1:2004, determined by GC/MS	PASS
7	Bisphenol A (BPA) content - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 and (EU) 2018/213	In-house Method, determined by LC-MS	PASS

Result:

Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

	Compound	Mat	erial	Limit	RL
Compound		1+2	3	(mg/kg)	(mg/kg)
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	500	10
	Conclusion	PASS	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram (b) RL: Report limit (c) N.D.: Not detected (result is less than RL)

2. Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

		Res	sult(s)	Limit	RL
	Compound	1+2	3	(mg/kg)	(mg/kg)
1	Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	100	10
	Conclusion	PASS	PASS	-	-

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Remark(s): (a) mg/kg: milligram per kilogram (b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

3. Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) - Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006

EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

		Osmanud	Res	ult(s)	Limit	RL
		Compound	1+2 3		(%)	(%)
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	N.D.	J -	0.005
3	DEHP	Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7	N.D.	N.D.	-	0.005
4	DIBP	Diisobutyl phthalate CAS# 84-69-5	N.D.	N.D.	-	0.005
5	DNOP	Di-n-octyl phthalate CAS# 117-84-0	N.D.	N.D.	-	0.005
6	DINP	Di-iso-nonyl phthalate CAS# 28553-12-0	N.D.	N.D.	-	0.005
7	DIDP	Diisodecyl phthalate CAS# 26761-40-0	N.D.	N.D.	-	0.005
8	Sum of	1, 2, 3 & 4	N.D.	N.D.	0.1	-
9	Sum of	5, 6 & 7	N.D.	N.D.	0.1	- /
	Conclu	sion	PASS	PASS	-	-

Remark(s): (a) RL: Report limit

(b) N.D.: Not detected (result is less than RL) (c)The data of #4 was retesting result.

Overall migration - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its 4. amendment (EU)2020/1245

EN 1186-1:2002 & EN 1186-3:2002

			Result(s)			
	Test specification		1		Limit (mg/dm²)	RL (mg/dm²)
		1 st	2 nd	3 rd		, ,
1	10% Ethanol, 70 °C, 2h	N.D.	N.D.	N.D.	10	3

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	Conclusion	-	-	PASS	-	-
3	50% Ethanol, 70 ℃, 2h	N.D.	N.D.	N.D.	10	3
2	3% Acetic acid, 70 ℃, 2h	N.D.	N.D.	N.D.	10	3

			Result(s)			
	Test specification		2		Limit (mg/dm²)	RL (mg/dm²)
		1 st	2 nd	3 rd	, , ,	
1	10% Ethanol, 70 ℃, 2h	N.D.	N.D.	N.D.	10	3
2	3% Acetic acid, 70 ℃, 2h	N.D.	N.D.	N.D.	10	3
3	50% Ethanol, 70 ℃, 2h	N.D.	N.D.	N.D.	10	3
	Conclusion	-	-	PASS	-	-

	Test specification		Result(s)			
			3		Limit (mg/dm²)	RL (mg/dm²)
		1 st	2 nd	3 _{rd}		, ,
1	10% Ethanol, 70 ℃, 2h	N.D.	N.D.	N.D.	10	3
2	3% Acetic acid, 70 ℃, 2h	N.D.	N.D.	N.D.	10	3
	Conclusion	-	-	PASS	-	-

Remark(s): (a) mg/dm²: milligram square decimetre

(b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

5. Specific migration of Heavy metal - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245

EN 13130-1: 2004, determined by ICP-OÉS

Test condition: 3%Acetic acid, 70°C, 2h

			Result(s)		Limit	DI
	Compound		1		(mg/kg)	RL (mg/kg)
		1 st	2 nd	3 rd		
1	Aluminum (Al)	N.D.	N.D.	N.D.	1	0.1

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2	Ammonium	N.D.	N.D.	N.D.		0.1
3	Antimony (Sb)	N.D.	N.D.	N.D.	0.04	0.01
4	Arsenic (As)	N.D.	N.D.	N.D.	Not Detected	0.01
5	Barium (Ba)	N.D.	N.D.	N.D.	1	0.1
6	Cadmium(Cd)	N.D.	N.D.	N.D.	Not Detected	0.002
7	Calcium(Ca)	0.54	N.D.	N.D.	-	0.1
8	Chromium (Cr)	N.D.	N.D.	N.D.	Not Detected	0.01
9	Cobalt (Co)	N.D.	N.D.	N.D.	0.05	0.01
10	Copper (Cu)	N.D.	N.D.	N.D.	5	0.5
11	Europium (Eu)	N.D.	N.D.	N.D.	0.05*	0.01
12	Gadolinium (Gd)	N.D.	N.D.	N.D.	0.05*	0.01
13	Iron (Fe)	N.D.	N.D.	N.D.	48	1
14	Lanthanum (La)	N.D.	N.D.	N.D.	0.05*	0.01
15	Lead(Pb)	N.D.	N.D.	N.D.	Not Detected	0.01
16	Lithium (Li)	N.D.	N.D.	N.D.	0.6	0.1
17	Magnesium(Mg)	N.D.	N.D.	N.D.	-	0.1
18	Manganese (Mn)	N.D.	N.D.	N.D.	0.6	0.05
19	Mercury(Hg)	N.D.	N.D.	N.D.	Not Detected	0.01
20	Nickel (Ni)	N.D.	N.D.	N.D.	0.02	0.01
21	Potassium(K)	0.24	N.D.	N.D.	<u></u>	0.1
22	Sodium(Na)	0.48	N.D.	N.D.	-	0.1
23	Terbium (Tb)	N.D.	N.D.	N.D.	0.05*	0.01
24	Zinc (Zn)	N.D.	N.D.	N.D.	5	1
	Conclusion	-	-	PASS	-	-

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			Result(s)		Limit	RL
	Compound		2	,	(mg/kg)	(mg/kg)
		1 st	2 nd	3 rd		
1	Aluminum (Al)	N.D.	N.D.	N.D.	1	0.1
2	Ammonium	N.D.	N.D.	N.D.	-	0.1
3	Antimony (Sb)	N.D.	N.D.	N.D.	0.04	0.01
4	Arsenic (As)	N.D.	N.D.	N.D.	Not Detected	0.01
5	Barium (Ba)	N.D.	N.D.	N.D.	1	0.1
6	Cadmium(Cd)	N.D.	N.D.	N.D.	Not Detected	0.002
7	Calcium(Ca)	N.D.	N.D.	N.D.	-	0.1
8	Chromium (Cr)	N.D.	N.D.	N.D.	Not Detected	0.01
9	Cobalt (Co)	N.D.	N.D.	N.D.	0.05	0.01
10	Copper (Cu)	N.D.	N.D.	N.D.	5	0.5
11	Europium (Eu)	N.D.	N.D.	N.D.	0.05*	0.01
12	Gadolinium (Gd)	N.D.	N.D.	N.D.	0.05*	0.01
13	Iron (Fe)	N.D.	N.D.	N.D.	48	1
14	Lanthanum (La)	N.D.	N.D.	N.D.	0.05*	0.01
15	Lead(Pb)	N.D.	N.D.	N.D.	Not Detected	0.01
16	Lithium (Li)	N.D.	N.D.	N.D.	0.6	0.1
17	Magnesium(Mg)	N.D.	N.D.	N.D.		0.1
18	Manganese (Mn)	N.D.	N.D.	N.D.	0.6	0.05
19	Mercury(Hg)	N.D.	N.D.	N.D.	Not Detected	0.01
20	Nickel (Ni)	N.D.	N.D.	N.D.	0.02	0.01
21	Potassium(K)	N.D.	N.D.	N.D.	- (0.1
22	Sodium(Na)	N.D.	N.D.	N.D.	-	0.1

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	Conclusion	-	-	PASS	-	-
24	Zinc (Zn)	N.D.	N.D.	N.D.	5	1
23	Terbium (Tb)	N.D.	N.D.	N.D.	0.05*	0.01

Remark(s): (a) mg/kg: milligram per kilogram (b) RL: Report limit (c) N.D.: Not detected (result is less than RL)

Specific migration of Primary Aromatic Amine EN 13130-1:2004, determined by GC/MS

Test Condition: 3%Acetic acid, 70°C, 2h

		Result			Limit (mg/kg)	RL (mg/kg)
	Compound	1				
		1 st	2 nd	3 rd		
1	Primary Aromatic Amines(PAAs)	N.D.	N.D.	N.D.	0.01	0.002
	Conclusion	-	-	PASS	-	-

		Result				
Compound		2			Limit (mg/kg)	RL (mg/kg)
		1 st	2 nd	3 rd	, , ,	
1	Primary Aromatic Amines(PAAs)	N.D.	N.D.	N.D.	0.01	0.002
	Conclusion	-	-	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram (b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

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7. Bisphenol A (BPA) content In-house Method, determined by LC-MS

	Test Item		Material			RL
		1	2	3	Limit (mg/kg)	(mg/kg)
1	Bisphenol A	N.D.	N.D.	N.D.	Not Detected	0.01
	Conclusion	PASS	PASS	PASS	-	-

Remark(s): (a) RL: Report limit

(b) N.D.: Not detected (result is less than RL)

Material List:

Material #	Position / Sample Description	Material
1	Black plastic,cover	RPET
2	Translucent plastic, body	RPET
3	Transparent silicone ring	silica gel

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Photo(s):

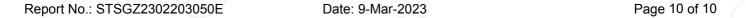


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