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Applicant: Mid Ocean Brands B.V.

Address: Unit 201, 2/F, Laford Centre, 838 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong.

Report on the submitted sample(s) said to be:

Sample Name : Spray water bottle

Model No. : MO9296

Material : See description

Country of origin : CHINA

Country of destination : EUROPE

Manufacturers :

Address :

Sample Receiving Date : Nov.08, 2017

Testing Period : Nov.08, 2017 to Nov.17, 2017

Test Requested : Please refer to next page(s).

Test Method : Please refer to next page(s).

Test Result : Please refer to next page(s).

Tested by: Lon

Suhongliang, Leon

Reviewed by: Jossia

Liangdan, Jessie.Liang

Test Team Leader Technical Supervisor

Approved by: Lew

Liulinwen, Lewis

Technical Director



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Test Requested:	Conclusion
1. As specified by client, to determine the phthalates content in the submitted sample(s) with reference	DI 植型
to entry 51 & 52, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
2. As specified by client, to determine the Cadmium(Cd)content in the Submitted sample(s) with	nC
reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
3. As specified by client, to test sample with reference to Regulation 1935/2004/EC, Regulation(EU)	
No.10/2011,AP (2004)5 for:	
-Overall Migration(3% (w/v) Acetic acid, 50%(v/v) Ethanol)	Pass
-Migration of Heavy metals	Pass
-Special Migration of Acrylonitrile	Pass
4. As specified by client, to determine the Bisphenol A content in the submitted samples in accordance with the French law No 2012-1442.	Pass
5. As specified by client, to determine the Lead and Lead compounds content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006.	Pass
6. As specified by client, to determine Specific migration of heavy metal from metal and alloys used in contact with food with reference to German Food, Articles of Daily Use and Feed Code of September, 2005(LFGB), and Technical Guide on Metals and alloys used in food contact materials of Council of Europe Resolution CM/Res(2013)9.	Pass

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Test Result (s):

1. Test result of phthalates content

Unit: %,w/w

T 474 ()	Test Method/	TA IB		Result(s)		Limit
Test Item(s)	Equipment	MDL		2	3	Limit
Dibutyl phthalate (DBP)	NG O	0.01	N.D.	N.D.	N.D.	
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	0 =
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	U
Sum of DBP+BBP+DEHP	Refer to	30	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)	EN 14372:2004	0.01	N.D.	N.D.	N.D.	L STATE
Di-isononyl phthalate (DINP)	GC-MS	0.01	N.D.	N.D.	N.D.	< C
Di-isodecyl phthalate (DIDP)	A STATE OF THE PARTY OF THE PAR	0.01	N.D.	N.D.	N.D.	
Sum of DNOP+DINP+DIDP	CO		N.D.	N.D.	N.D.	0.1
Conclusion	W 111	/ 10	Pass	Pass	Pass	1

Unit: %,w/w

max C	Test Method/	MDI			Limit	
Test Item(s)	Equipment	MDL	4	5	6	Limit
Dibutyl phthalate (DBP)	NGC T	0.01	N.D.	N.D.	N.D.	30
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	-
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	F The Total
Sum of DBP+BBP+DEHP	Refer to	F Cool Cool	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)	EN 14372:2004	0.01	N.D.	N.D.	N.D.	
Di-isononyl phthalate (DINP)	GC-MS	0.01	N.D.	N.D.	N.D.	
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	N.D.	
Sum of DNOP+DINP+DIDP		- 6	N.D.	N.D.	N.D.	0.1
Conclusion		97	Pass	Pass	Pass	1

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Unit: %,w/w

Total Marie (1)	Test Method/	MDI			45.	
Test Item(s)	Equipment	MDL	7	8	9	Limit
Dibutyl phthalate (DBP)	C BACC	0.01	N.D.	N.D.	N.D.	
Butylbenzyl phthalate (BBP)		0.01	N.D.	N.D.	N.D.	
Di- (2-ethylhexyl) phthalate (DEHP)		0.01	N.D.	N.D.	N.D.	0 # 4
Sum of DBP+BBP+DEHP	Refer to	_ =	N.D.	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)	EN 14372:2004	0.01	N.D.	N.D.	N.D.	7
Di-isononyl phthalate (DINP)	GC-MS	0.01	N.D.	N.D.	N.D.	74 —
Di-isodecyl phthalate (DIDP)		0.01	N.D.	N.D.	N.D.	
Sum of DNOP+DINP+DIDP			N.D.	N.D.	N.D.	0.1
Conclusion		70	Pass	Pass	Pass	/

Note:

- 1. 0.1%, w/w = 1000mg/kg
- 2. MDL=method detection limit
- **3.** N.D.=not detected (less than method detection limit)
- **4.** "-" =Not regulated

2. Test Result(s) of Cd

Unit: mg/kg

Test item(s)	Test Method/	MDL		T :!4		
	Equipment		1	2	3	Limit
Cadmium (Cd)	Refer to	5	N.D.	N.D.	N.D.	100
Conclusion	EN1122:2001 ICP-OES	/	Pass	Pass	Pass	1

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Unit: mg/kg

Test item(s)	Test Method/	MDA		- N. 18. 18		
	Equipment	MDL	4	5	6	Limit
Cadmium (Cd)	Refer to	5	N.D.	N.D.	N.D.	100
Conclusion	EN1122:2001 ICP-OES	/	Pass	Pass	Pass	133

Unit: mg/kg

Test item(s)	Test Method/	MDI		th Time!			
	Equipment	MDL	7	8	9	10	Limit
Cadmium (Cd)	Refer to	5	N.D.	N.D.	N.D.	N.D.	100
Conclusion	EN1122:2001 ICP-OES	/	Pass	Pass	Pass	Pass	

Note: 1. MDL=Method Detection Limit

2. N.D.=Not Detected(less than method detection limit)

3.1. Test Result(s) of Overall Migration

Unit: mg/dm²

Test Solution	TD 4 1'4'	MDL	1	- A. 16		
	Test condition		1	2	3	Limit
3% (w/v) Acetic acid	7000 21	5	N.D.	N.D.	N.D.	10
50%(v/v) Ethanol	70°C, 2h	5	N.D.	N.D.	N.D.	10
Conclusion	/	/	Pass	Pass	Pass	/

Unit: mg/dm²

Test Solution	Tost condition	MDI	Т	T ::4		
	Test condition	MDL	4	5	6	Limit
3% (w/v) Acetic acid	70°C, 2h	5	N.D.	N.D.	N.D.	10
50%(v/v) Ethanol		5	N.D.	N.D.	N.D.	10
Conclusion	1 2 g	Salara 1	Pass	Pass	Pass	/

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Unit: mg/dm²

Total Call 4'	The desired that the same of t	lition MDL	Т	Test Result(s)			
Test Solution	Test condition		7	8	9	Limit	
3% (w/v) Acetic acid	7000 01	5	N.D.	N.D.	N.D.	10	
50%(v/v) Ethanol	70°C, 2h	5	N.D.	N.D.	N.D.	10	
Conclusion	0 / 0	/	Pass	Pass	Pass	/	

Note: 1. N.D.=not detected (less than method detection limit)

2. MDL=method detection limit

3.2. Test Result(s) of Special Migration of Heavy metals

Unit: mg/kg

	- 1	不拉那	0 4	Test Result(s) 3% (w/v) Acetic acid				
Test Item(s)	Test condition/ Equipment	MDL	3					
	Equipment		1	2	3	4	根	
Barium (Ba)		0.25	N.D.	N.D.	N.D.	N.D.	7 1	
Cobalt (Co)	1 1	0.01	N.D.	N.D.	N.D.	N.D.	0.05	
Copper (Cu)	C Barrell	0.25	N.D.	N.D.	N.D.	N.D.	5	
Iron (Fe)	70°C 21 /ICD OFG	0.25	N.D.	N.D.	N.D.	N.D.	48	
Lithium (Li)	70°C, 2h/ICP-OES	0.5	N.D.	N.D.	N.D.	N.D.	0.6	
Manganese (Mn)	TA THE STATE OF TH	0.25	N.D.	N.D.	N.D.	N.D.	0.6	
Zinc (Zn)	LGO "	0.5	N.D.	N.D.	N.D.	N.D.	25	
Conclusion		1	Pass	Pass	Pass	Pass	= TY	

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Unit: mg/kg

6 A. F. Waller	30 . 30				~ 極潮				
Test Item(s)	Test condition/ Equipment	MDL	alZr.	3% (w/v) Acetic acid					
	Equipment	(C) 450	5	6	7	8	9	- (
Barium (Ba)	CO	0.25	N.D.	N.D.	N.D.	N.D.	N.D.	1	
Cobalt (Co)	10	0.01	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	
Copper (Cu)		0.25	N.D.	N.D.	N.D.	N.D.	N.D.	5	
Iron (Fe)	70°C 21 /ICD 0EG	0.25	N.D.	N.D.	N.D.	N.D.	N.D.	48	
Lithium (Li)	70°C, 2h/ICP-OES	0.5	N.D.	N.D.	N.D.	N.D.	N.D.	0.6	
Manganese (Mn)	NGO NA NA	0.25	N.D.	N.D.	N.D.	N.D.	N.D.	0.6	
Zinc (Zn)		0.5	N.D.	N.D.	N.D.	N.D.	N.D.	25	
Conclusion	O. F. Townson	10000	Pass	Pass	Pass	Pass	Pass	/	

Note: 1. N.D.=not detected (less than method detection limit)

2. MDL= method detection limit

3.3. Special Migration of Acrylonitrile

Unit: mg/kg

CO N	Test condition/	wilde.	Test R	ST CONTRACTOR	
Test Solution	Equipment	MDL	1	5	Limit
3% (w/v) Acetic acid	70°C, 2h/HPLC	0.1	N.D.	N.D.	0.1
Conclusion	/	1	Pass	Pass	/

Note: 1. N.D.=not detected (less than method detection limit)

2. MDL=method detection limit

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4. Test Result(s) of BPA

Unit: mg/kg

Toot Home(s)	Test Item(a) Test Method/		福	T. T.			
Test Item(s) Equipment		MDL	1 3 1 m	2	3	40	Limit
BPA	Refer to EPA 3540C:1996&	Ci	N.D.	N.D.	N.D.	N.D.	Absent
Conclusion	EPA 8321B:2007 HPLC	T 1/ 1/1	Pass	Pass	Pass	Pass	GG*

Unit: mg/kg

Toot Itom(a)	Test Method/	MDL	(极)	T				
Test Item(s)	Equipment	MDL	5	6	7	8	9	Limit
BPA	Refer to EPA 3540C:1996&	1	N.D.	N.D.	N.D.	N.D.	N.D.	Absent
Conclusion	EPA 8321B:2007 HPLC		Pass	Pass	Pass	Pass	Pass	/

Note:

- 1. MDL=Method Detection Limit
- 2. N.D.=Not Detected(less than method detection limit)

5. Test Result(s) of Lead content

Unit: mg/kg

60	T4:4(-)	Test Method/	MDI	Result(s)			IN TO SERVE
	Test item(s)	Equipment	MDL	41	2	3	Limit
TA THE	Lead (Pb)	Refer to EPA3052-1996& EPA6010C-2007 ICP-OES	5	N.D.	N.D.	N.D.	500
	Conclusion	15	5 1 ° °	Pass	Pass	Pass	41

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Unit: mg/kg

T (4 '4 (v)	Test Method/	MDI	Result(s)			18.7
Test item(s)	Equipment	MDL	4	5	6	Limit
Lead (Pb)	Refer to EPA3052-1996& EPA6010C-2007 ICP-OES	5	N.D.	N.D.	N.D.	500
Conclusion		16	Pass	Pass	Pass	- /

Unit: mg/kg

	Test Method/	MDL 7		Result(s)			
Test item(s)	Equipment		7	8	9	10	Limit
Lead (Pb)	Refer to EPA3052-1996& EPA3050B-19996& EPA6010C-2007 ICP-OES	5	N.D.	N.D.	N.D.	23	500
Conclusion	1 1	5/1000	Pass	Pass	Pass	Pass	/

Note: 1. MDL=Method Detection Limit

2. N.D.=Not Detected(less than method detection limit)

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6. Specific migration of heavy metal

Unit: mg/kg

-0"	30	500	Test Result(s)	Cint. hig/kg
Test Item(s)	Test condition/	MDL	10	Limit
承书	Equipment	O SE TOO CHANGE	1 st + 2 nd extractives	
Barium (Ba)	100 C	0.1	N.D.	8.4
Copper (Cu)		0.1	N.D.	28
Iron (Fe)	10000000	0.1	N.D.	280
Tin (Sn)	F. Mariana Carrier	0.1	N.D.	700
Chromium (Cr)	ZGC	0.01	N.D.	1.75
Manganese (Mn)		0.1	N.D.	12.6
Zinc (Zn)	© SE THE COMMENT OF SE	0.1	N.D.	35
Aluminium (Al)	C CC	0.1	N.D.	35
Lithium (Li)		0.01	N.D.	0.336
Beryllium (Be)	E THE STATE OF THE	0.005	N.D.	0.07
Vanadium (V)	Artificial tap water,	0.005	N.D.	0.07
Nickel (Ni)	70°C, 2h ICP-OES	0.01	N.D.	0.98
Cobalt (Co)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.01	N.D.	0.14
Arsenic (As)	4.5° 2.0°	0.002	N.D.	0.014
Molybdenum(Mo)		0.01	N.D.	0.84
Silver (Ag)	10. 10. 10.	0.01	N.D.	0.56
Cadmium (Cd)	© Francisco	0.002	N.D.	0.035
Antimony (Sb)	-,C	0.01	N.D.	0.28
Mercury (Hg)		0.002	N.D.	0.021
Thallium (Tl)	亚龙龙	0.0001	N.D.	0.0007
Lead (Pb)	-0	0.01	N.D.	0.07
Conclusion	100	/	Pass	- T. 7

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Unit: mg/kg

4 4	20 20		Test Result(s)	Unit: mg/kg
Test Item(s)	Test condition/	MDL	10	_ Limit
C Prost Item(s)	Equipment	T. E.	3 rd extractives	
Barium (Ba)		0.1	N.D.	1.2
Copper (Cu)	100 10	0.1	N.D.	4
Iron (Fe)		0.1	N.D.	40
Tin (Sn)	水性	0.1	N.D.	100
Chromium (Cr)	- 6	0.01	N.D.	0.25
Manganese (Mn)	NGO	0.1	N.D.	1.8
Zinc (Zn)	玉龙	0.1	N.D.	5
Aluminium (Al)		0.1	N.D.	5
Lithium (Li)	CC SCO	0.01	N.D.	0.048
Beryllium (Be)		0.005	N.D.	0.01
Vanadium (V)	Artificial tap water,	0.005	N.D.	0.01
Nickel (Ni)	70℃, 2h ICP-OES	0.01	N.D.	0.14
Cobalt (Co)		0.01	N.D.	0.02
Arsenic (As)	不 想	0.002	N.D.	0.002
Molybdenum(Mo)	* CO	0.01	N.D.	0.12
Silver (Ag)		0.01	N.D.	0.08
Cadmium (Cd)	E. T. E.	0.002	N.D.	0.005
Antimony (Sb)	O The state of the	0.01	N.D.	0.04
Mercury (Hg)	CO. Se	0.002	N.D.	0.003
Thallium (Tl)		0.0001	N.D.	0.0001
Lead (Pb)	T. T. Standard Co. S. T. T.	0.01	N.D.	0.01
Conclusion	2C	9	Pass	/

Note:

- 1. N.D.=Not Detected(less than method detection limit)
- 2. MDL= method detection limit

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Remark:

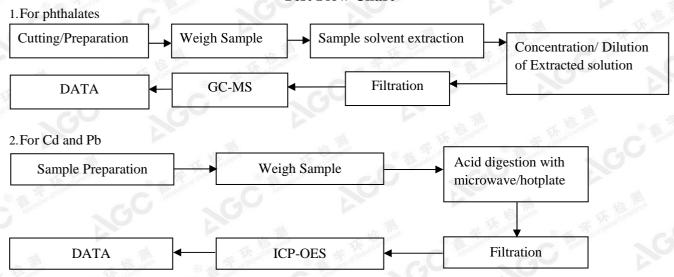
Results from all three extractives are to be considered for compliance:

- (1). Result of 3rd extractive shall not exceed the SRL;
- (2). Sum of result of 1st and 2nd extractives shall not exceed 7 times of SRL.

Sample Description:

No.	Sample Description	Material
1	Transparent lid	ABS
2	Blue plastic	TPR
3	White plastic	PP
4	White plastic straws	PP
5	Dark blue plastic	ABS
6	White Silicone ring	Silicone
7	Transparent pipette	PP State of the st
8	Blue plastic portable	PE CO
9	Transparent blue bottle body	Tritan
10	Spring	Metal

Test Flow Chart



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This report is to supersede the report with No.: A001R20171108047-2 dated on Nov.17, 2017.

The photo of the sample



AGC authenticate the photo on original report only

*** End of Report***

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