



TEST REPORT

Report No.: STSGZ2404153041E

Date: 25-Apr-2024

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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: 500ml RPET bottle

Model/Style/Item #: M06555

Receiving Date: 15-Apr-2024

Test Period: From 15-Apr-2024 to 19-Apr-2024

Add Information: -

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Polycyclic-aromatic hydrocarbons (PAHs) content-- Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013	AfPS-GS-2019-01:PAK, determined by GC-MS	PASS
2	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
3	Total Lead content - Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
4	Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS

*****Please refer to the following page for detailed results*****

Signed for and on behalf of STS

Tim Qi
(Technical Director)



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Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699 Web://www.stsgz.com

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#	Test Item(s)	Reference Standard/Method	Result
Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2023/1442 and (EU) 2018/213 - For Plastic Material			
5	Overall migration	EN 1186-1:2002 & EN 1186-3:2022	PASS
6	Specific migration of Heavy Metal	EN 13130-1: 2004, determined by ICP-OES	PASS
7	Specific migration of Primary Aromatic Amine	EN 13130-1:2004, determined by LC-MS-MS	PASS
8	Bisphenol A (BPA) content	In-house Method, determined by LC-MS-MS	PASS

Result:

1. **Polycyclic-aromatic hydrocarbons (PAHs) content - Item 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013**
AtPS-GS-2019-01:PAK, determined by GC-MS

Compound	Material		Limit (mg/kg)	RL (mg/kg)	
	category I ¹				
	1	2			
1	Benz[a]anthracene(BaA) CAS#56-55-3	N.D.	N.D.	1	0.2
2	Chrysene(CHR) CAS#218-01-9	N.D.	N.D.	1	0.2
3	Benz[b]fluoranthene(BbFA) CAS#205-99-2	N.D.	N.D.	1	0.2
4	Benz[k]fluoranthene(BkFA) CAS#207-08-9	N.D.	N.D.	1	0.2
5	Benz[j]fluoranthene(BjFA) CAS#205-82-3	N.D.	N.D.	1	0.2
6	Benzo[a]pyrene(BaP) CAS#50-32-8	N.D.	N.D.	1	0.2
7	Benzo[e]pyrene(BeP) CAS#192-97-2	N.D.	N.D.	1	0.2
8	Dibenz [a,h]anthracene (DBahA) CAS#53-70-3	N.D.	N.D.	1	0.2
Conclusion		PASS	PASS	-	-

Remark: (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)
1: Material category
Category I: Articles come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

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Category II : Toys, including activity toys, and childcare articles, that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

2. 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

Compound			Material		Limit (%)	RL (%)
			1	2		
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.	-	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	-
Conclusion			PASS	PASS	-	-

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

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

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		1	2		
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	500	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)

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

Compound	Result(s)		Limit (mg/kg)	RL (mg/kg)
	1	2		
1 Cadmium (Cd) CAS#7440-43-9	N.D.	N.D.	100	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)

Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2023/1442 and (EU) 2018/213 - For Plastic Material

5. Overall migration EN 1186-1:2002 & EN 1186-3:2022

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

Test specification	Result(s)			Limit (mg/dm ²)	RL (mg/dm ²)
	2				
	1 st	2 nd	3 rd		
1 3% Acetic acid, 70°C, 2h	N.D.	N.D.	N.D.	10	3
2 50% Ethanol, 70°C, 2h	N.D.	N.D.	N.D.	10	3

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	Conclusion	-	-	PASS	-	-
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Remark(s): (a) mg/dm²: milligram square decimetre
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

6. Specific migration of Heavy Metal EN 13130-1: 2004, determined by ICP-OES

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

Compound	Result(s)			Limit (mg/kg)	RL (mg/kg)	
	1					
	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

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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
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	-	-

Compound	Result(s)			Limit (mg/kg)	RL (mg/kg)	
	2					
	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

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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
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	-	-

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

7. Specific migration of Primary Aromatic Amine EN 13130-1:2004, determined by LC-MS-MS

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

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

Compound	Material			Limit (mg/kg)	RL (mg/kg)
	1				
	1 st	2 nd	3 rd		

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1	biphenyl-4-ylamine 4-aminobiphenyl xenylamine CAS# 92-67-1	N.D.	N.D.	N.D.	0.01	0.002
2	Benzidine CAS# 92-87-5	N.D.	N.D.	N.D.	0.01	0.002
3	4-chloro-o-toluidine CAS# 95-69-2	N.D.	N.D.	N.D.	0.01	0.002
4	2-Naphthylamine CAS# 91-59-8	N.D.	N.D.	N.D.	0.01	0.002
5	o-aminoazotoluene 4- amino-2',3- dimethylazobenzene 4-o-tolylazo-o-toluidine CAS# 97-56-3	N.D.	N.D.	N.D.	0.01	0.002
6	5-nitro-o-toluidine CAS# 99-55-8	N.D.	N.D.	N.D.	0.01	0.002
7	5-Chloroaniline CAS# 106-47-8	N.D.	N.D.	N.D.	0.01	0.002
8	4-methoxy-m- phenylenediamine CAS# 615-05-4	N.D.	N.D.	N.D.	0.01	0.002
9	4,4'-methylenedianiline 4,4'- diaminodiphenylmethane CAS# 101-77-9	N.D.	N.D.	N.D.	0.01	0.002
10	3,3'-dichlorobenzidine 3,3'- dichlorobiphenyl-4,4'- ylenediamine CAS# 91-94-1	N.D.	N.D.	N.D.	0.01	0.002
11	3,3'-dimethoxybenzidine o- dianisidine CAS# 119-90-4	N.D.	N.D.	N.D.	0.01	0.002
12	3,3'-dimethylbenzidine 4,4'-bi-o-toluidine CAS# 119-93-7	N.D.	N.D.	N.D.	0.01	0.002
13	4,4'-methylenedi-o-toluidine CAS# 838-88-0	N.D.	N.D.	N.D.	0.01	0.002
14	6-methoxy-m-toluidine p- cresidine CAS# 120-71-8	N.D.	N.D.	N.D.	0.01	0.002
15	4,4'-methylene-bis-(2-chloro- aniline) 2,2'-dichloro-4,4'-methylene- dianiline CAS# 101-14-4	N.D.	N.D.	N.D.	0.01	0.002
16	4,4'-oxydianiline CAS# 101-80-4	N.D.	N.D.	N.D.	0.01	0.002
17	4,4'-thiodianiline CAS# 139-65-1	N.D.	N.D.	N.D.	0.01	0.002
18	o-toluidine 2-aminotoluene CAS# 95-53-4	N.D.	N.D.	N.D.	0.01	0.002
19	4-methyl-m-phenylenediamine CAS# 95-80-7	N.D.	N.D.	N.D.	0.01	0.002

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20	2,4,5-trimethylaniline CAS# 137-17-7	N.D.	N.D.	N.D.	0.01	0.002
21	o-anisidine 2-methoxyaniline CAS# 90-04-0	N.D.	N.D.	N.D.	0.01	0.002
22	4-amino azobenzene CAS# 60-09-3	N.D.	N.D.	N.D.	0.01	0.002
23	1,5- Diaminenaphthalene CAS# 2242-62-01	N.D.	N.D.	N.D.	0.01	0.002
24	Aniline (ANL) CAS# 62-53-3	N.D.	N.D.	N.D.	0.01	0.002
25	2,4-Dimethylaniline (2,4-DMA) CAS# 95-68-1	N.D.	N.D.	N.D.	0.01	0.002
26	2,6-Dimethylaniline (2,6-DMA) CAS# 87-62-7	N.D.	N.D.	N.D.	0.01	0.002
27	m-Phenylenediamine (m- PDA) CAS# 108-45-2	N.D.	N.D.	N.D.	0.01	0.002
28	p-Phenylenediamine (p-PDA) CAS# 106-50-3	N.D.	N.D.	N.D.	0.01	0.002
29	2,6-Toluenediamine (2,6- TDA) CAS# 823-40-5	N.D.	N.D.	N.D.	0.01	0.002

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

Compound	Material			Limit (mg/kg)	RL (mg/kg)	
	2					
	1 st	2 nd	3 rd			
1	biphenyl-4-ylamine 4- aminobiphenyl xenylamine CAS# 92-67-1	N.D.	N.D.	N.D.	0.01	0.002
2	Benzidine CAS# 92-87-5	N.D.	N.D.	N.D.	0.01	0.002
3	4-chloro-o-toluidine CAS# 95-69-2	N.D.	N.D.	N.D.	0.01	0.002
4	2-Naphthylamine CAS# 91-59-8	N.D.	N.D.	N.D.	0.01	0.002
5	o-aminoazotoluene 4-	N.D.	N.D.	N.D.	0.01	0.002

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	amino-2',3-dimethylazobenzene 4-o-tolylazo-o-toluidine CAS# 97-56-3					
6	5-nitro-o-toluidine CAS# 99-55-8	N.D.	N.D.	N.D.	0.01	0.002
7	5-Chloroaniline CAS# 106-47-8	N.D.	N.D.	N.D.	0.01	0.002
8	4-methoxy-m-phenylenediamine CAS# 615-05-4	N.D.	N.D.	N.D.	0.01	0.002
9	4,4'-methylenedianiline 4,4'-diaminodiphenylmethane CAS# 101-77-9	N.D.	N.D.	N.D.	0.01	0.002
10	3,3'-dichlorobenzidine 3,3'-dichlorobiphenyl-4,4'-ylenediamine CAS# 91-94-1	N.D.	N.D.	N.D.	0.01	0.002
11	3,3'-dimethoxybenzidine o-dianisidine CAS# 119-90-4	N.D.	N.D.	N.D.	0.01	0.002
12	3,3'-dimethylbenzidine 4,4'-bi-o-toluidine CAS# 119-93-7	N.D.	N.D.	N.D.	0.01	0.002
13	4,4'-methylenedi-o-toluidine CAS# 838-88-0	N.D.	N.D.	N.D.	0.01	0.002
14	7-methoxy-m-toluidine p- cresidine CAS# 120-71-8	N.D.	N.D.	N.D.	0.01	0.002
15	4,4'-methylene-bis-(2-chloro- aniline) 2,2'-dichloro-4,4'-methylene- dianiline CAS# 101-14-4	N.D.	N.D.	N.D.	0.01	0.002
16	4,4'-oxydianiline CAS# 101-80-4	N.D.	N.D.	N.D.	0.01	0.002
17	4,4'-thiodianiline CAS# 139-65-1	N.D.	N.D.	N.D.	0.01	0.002
18	o-toluidine 2-aminotoluene CAS# 95-53-4	N.D.	N.D.	N.D.	0.01	0.002
19	5-methyl-m-phenylenediamine CAS# 95-80-7	N.D.	N.D.	N.D.	0.01	0.002
20	2,4,5-trimethylaniline CAS# 137-17-7	N.D.	N.D.	N.D.	0.01	0.002
21	o-anisidine 2-methoxyaniline CAS# 90-04-0	N.D.	N.D.	N.D.	0.01	0.002
22	4-amino azobenzene CAS# 60-09-3	N.D.	N.D.	N.D.	0.01	0.002
23	1,5- Diaminenaphthalene CAS# 2242-62-01	N.D.	N.D.	N.D.	0.01	0.002
24	Aniline (ANL) CAS# 62-53-3	N.D.	N.D.	N.D.	0.01	0.002

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Guangzhou Depuhua Test Services Co. Ltd.

A301&A401, 3/F.&4/F., Xinghui Building, Guanqiao, Shilou, Panyu District, Guangzhou, Guangdong, China
Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699

e-mail: stsgz@stsapp.com

Web://www.stsgz.com



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25	2,4-Dimethylaniline (2,4-DMA) CAS# 95-68-1	N.D.	N.D.	N.D.	0.01	0.002
26	2,6-Dimethylaniline (2,6-DMA) CAS# 87-62-7	N.D.	N.D.	N.D.	0.01	0.002
27	m-Phenylenediamine (m- PDA) CAS# 108-45-2	N.D.	N.D.	N.D.	0.01	0.002
28	p-Phenylenediamine (p-PDA) CAS# 106-50-3	N.D.	N.D.	N.D.	0.01	0.002
29	2,6-Toluenediamine (2,6- TDA) CAS# 823-40-5	N.D.	N.D.	N.D.	0.01	0.002

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

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

Test Item	Material		Client's Limit (mg/kg)	RL (mg/kg)
	1	2		
1 Bisphenol A	N.D.	N.D.	Not Detected	0.01
Conclusion	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	Transparent blue plastic,bottle	RPET
2	Blue plastic, lid	PP

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Photo(s):



Test Sample photo

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Product Photo

END OF REPORT

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声明 Statement

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e-mail: stsgz@stsapp.com

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签发测试报告条款

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All samples and goods are accepted by the Guangzhou Depuhua Test Services Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the Company and any person, firm or company requesting its services (the "Clients").
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