

Report No.: STSGZ2402013016E Date: 20-Feb-2024 Page 1 of 9

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: SS portable suitcase barbecue

Model/Style/Item #: MO6358

Receiving Date: 1-Feb-2024

Test Period: From 1-Feb-2024 to 6-Feb-2024

Add Information:

Test Summary:

#	Test Item(s)	Reference Standard/Method	Result
1	Polycyclic-aromatic hydrocarbons (PAHs) content ltem 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
5	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)	BS EN 12875-1:2005	PASS
6	Extractable Heavy metal-Regulation (EC) No 1935/2004, Council of Europe Resolution CMRes(2013)9	BS EN 13130-1:2004&BS EN 11885:2009, determined by ICP-OES and ICP-MS	PASS

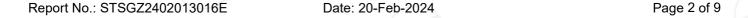


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Result:

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

		Ma	nterial			
	Compound	cate	category I*1			
		7	9	(mg/kg)	(mg/kg)	
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.

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.

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Report No.: STSGZ2402013016E Date: 20-Feb-2024 Page 3 of 9

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

			Mat	Limit	RL	
	Compound		7	9	(%)	(%)
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.	/ <u>-</u>	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	<i>/</i> -	
	Conclu	sion	PASS	PASS	-	-

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

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

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

Compound			Mat	Limit	RL		
		1+2+3	4+5+6	8+10+11	12+13+14	(mg/kg)	(mg/kg)
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	500	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

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REPORT

Page 4 of 9 Report No.: STSGZ2402013016E Date: 20-Feb-2024

Compound		Material				Limit	RL
		15+16+17	18+19+20	21+22+23	7	(mg/kg)	(mg/kg)
1	Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	500	10
	Conclusion	PASS	PASS	PASS	PASS	-	-

Compound		Mat	Limit	RL	
		9	24	(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)

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

Compound		Resi	Limit	RL	
		7	9	(mg/kg)	(mg/kg)
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)

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Report No.: STSGZ2402013016E Date: 20-Feb-2024 Page 5 of 9

5. Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003) BS EN 12875-1:2005

	Sample	1A	1B	1C
	Color ¹⁾	0	0	0
	Gloss	0	0	0
After 10 cycles	Clouding	0	0	0
	Resistant deposits and iridescent layers ²⁾	0	0	0
	Other aspects	0	0	0

Remark(s):

- 1).If several colours are present on one article to be inspected, the colour with the greatest change shall be chosen.
- 2). For the elimination of easily removable deposits.
- 3). See photo bar for test photos

Note: Pictures are for reference only. Actual colours of the pictures may vary due to lighting and output process. Evaluation of inspection criteria quoted from BS EN 12875-1:2005.

Classification	Rating	
0	No visible change	
1	First discernible change	
2	Clearly visible change	

Requirements quoted from Publicly Available Specification PAS 54: 2003

Articles that are designated "dishwasher resistant", "dishwasher proof", "dishwasher safe" or any other similar description that suggests that the articles can be safety cleaned in a dishwasher shall, either show no visible change compared with untreated tableware (Classification 0) or show very slightly visible change (Classification 1) but shall not show clearly visible change (Classification 2)

6. Specific Migration of Heavy Metal-Regulation (EC) No 1935/2004, Council of Europe Resolution CMRes(2013)9

EN 13130-1: 2004&EN 11885:2009, determined by ICP-OES and ICP-MS

Test condition: 0.5% citric acid , 100 $^{\circ}$ C , 2 hours

Elements		Material	l	Limit (mg/kg)		RL (mg/kg)	
		1 st + 2 nd	3 rd	1 st + 2 nd	3 rd	1 st + 2 nd	3 rd
1	Tin (Sn)	N.D.	N.D.	700	100	2	1
2	Copper (Cu)	N.D.	N.D.	28	4	2	1

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Report No.: STSGZ2402013016E Date: 20-Feb-2024 Page 6 of 9

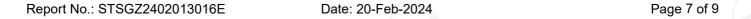
3	Iron (Fe)	N.D.	N.D.	280	40	2	1
4	Manganese (Mn)	N.D.	N.D.	12.6	1.8	0.2	0.1
5	Zinc (Zn)	N.D.	N.D.	35	5	2	1
6	Aluminum (Al)	N.D.	N.D.	35	5	2	1
7	Barium (Ba)	N.D.	N.D.	8.4	1.2	0.2	0.1
8	Chromium (Cr)	N.D.	N.D.	1.75	0.25	0.1	0.05
9	Nickel (Ni)	N.D.	N.D.	0.98	0.14	0.1	0.05
10	Lithium (Li)	N.D.	N.D.	0.336	0.048	0.02	0.01
11	Beryllium (Be)	N.D.	N.D.	0.07	0.01	0.002	0.001
12	Vanadium (V)	N.D.	N.D.	0.07	0.01	0.002	0.001
13	Cobalt (Co)	N.D.	N.D.	0.14	0.02	0.002	0.001
14	Molybdenum (Mo)	N.D.	N.D.	0.84	0.12	0.02	0.01
15	Silver (Ag)	N.D.	N.D.	0.56	0.08	0.02	0.01
16	Antimony (Sb)	N.D.	N.D.	0.28	0.04	0.02	0.01
17	Lead (Pb)	N.D.	N.D.	0.07	0.01	0.002	0.001
18	Arsenic (As)	N.D.	N.D.	0.014	0.002	0.002	0.001
19	Cadmium (Cd)	N.D.	N.D.	0.035	0.005	0.002	0.001
20	Mercury (Hg)	N.D.	N.D.	0.021	0.003	0.002	0.001
21	Thallium (TI)	N.D.	N.D.	0.0007	0.0001	0.0002	0.0001
22	Magnesium (Mg)	N.D.	N.D.	-	-	2	1
23	Titanium (Ti)	N.D.	N.D.	- (-	2	1
	Conclusion	PASS	PASS	-	-	-	-

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Material List:

Material #	Position / Sample Description
1	Silvery metal,barbecue wire mesh
2	Silvery metal,small handle
3	Silvery metal,frame
4	Silvery metal,bracket
5	Silvery metal,barbeque grill
6	Silvery metal,chassis
7	Black coating,cover
8	Silvery metal,box
9	Black soft plastic,handle
10	Silvery metal,handle
11	Silvery metal,holder
12	Silvery metal,short axle
13	Silvery metal, buckle
14	Silvery metal,lock plate
15	Silvery metal, ring
16	Silvery metal, spring
17	Matt silvery metal,big rivet
18	Matt silvery metal,small rivet
19	Silvery metal,handle holder
20	Matt silvery metal,handle
21	Matt silvery metal, support
22	Silvery metal,fixed point

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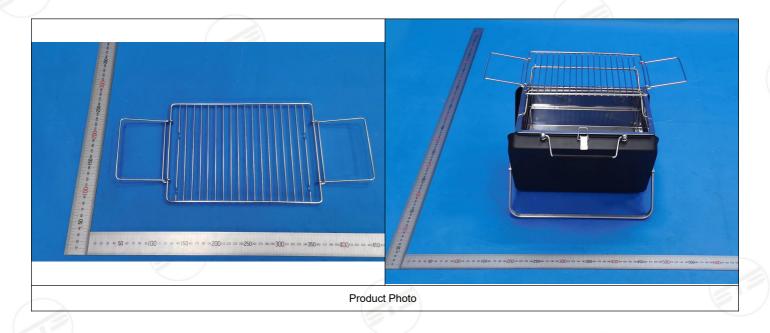


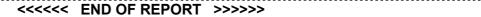
Report No.: STSGZ2402013016E Date: 20-Feb-2024 Page 8 of 9

23	Silvery metal,fixed plate	
24	Silvery metal,long axle	

Remark(s): The test material point is selected by client, the chemical test conclusions in the report only apply to the test material.

Photo(s):





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Report No.: STSGZ2402013016E Date: 20-Feb-2024 Page 9 of 9

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