

Report No.: STSGZ2208193025E Date: 25-Aug-2022 Page 1 of 10

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: Stainless steel core remover

Model/Style/Item #: MO6754

Receiving Date: 19-Aug-2022

Test Period: From 19-Aug-2022 to 24-Aug-2022

Add Information:

Test Summary:

#	Test Item(s)	Test Item(s) Reference Standard/Method			
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		
4	Dishwasher safe test (complied with the specification of dishwasher safe test according to PAS 54:2003)	BS EN 12875-1:2005	PASS		



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Report No.: STSGZ2208193025E Date: 25-Aug-2022 Page 2 of 10

#	Test Item(s)	Reference Standard/Method	Result
5	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
6	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
7	Specific migration of Primary Aromatic Amine - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245	EN 13130-1:2004, determined by GC/MS	PASS
8	Bisphenol A (BPA) content - Regulation (EC) No		PASS
9	Extractable Heavy metal - Regulation (EC) No 1935/2004 and Council of Europe Resolution CMRes(2013)9	BS EN 13130-1:2004&BS EN 11885:2009, determined by ICP-OES and ICP-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	Limit	RL	
		1	2	(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)

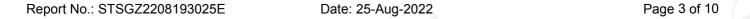
2. Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

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

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REPORT



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

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

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Report No.: STSGZ2208193025E Date: 25-Aug-2022 Page 4 of 10

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

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

Remark(s): 1).If 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)

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

		Result(s)			Limit	
	Test specification		1			RL (mg/dm²)
		1 st	2 nd	3 rd	(mg/dm²)	, ,
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	95% Ethanol, 60℃, 2h	N.D.	N.D.	N.D.	10	3
	Conclusion	-	-	PASS	-	-

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Report No.: STSGZ2208193025E Date: 25-Aug-2022 Page 5 of 10

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 - 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 ℃, 2h

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

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Report No.: STSGZ2208193025E Date: 25-Aug-2022 Page 6 of 10

	Conclusion	-	-	PASS	-	-
19	Zinc (Zn)	N.D.	N.D.	N.D.	5	1
18	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)

(d) The sum of all lanthanide substances migrating to the food or food simulant does not exceed the specific migration limit of 0,05 mg/kg

7. Specific migration of Primary Aromatic Amine - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245 EN 13130-1:2004, determined by GC/MS

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

Compound							
		1			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)

 Bisphenol A (BPA) content - Regulation (EC) No 1935/2004, the Commission Regulation (EU) No 10/2011 and its amendment (EU)2020/1245

In-house Method, determined by LC-MS

Test Item —		Material 1	Client's Limit (mg/kg)	RL (mg/kg)
1	Bisphenol A	N.D.	Not Detected	0.01
	Conclusion	PASS	-	-

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

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

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Guangzhou Depuhua Test Services Co. Ltd.

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Page 7 of 10 Report No.: STSGZ2208193025E Date: 25-Aug-2022

9.

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

Test condition: 0.5% Citric acid, 70 $^{\circ}$ C , 2h, 3 times

		Material		Limit		RL	
Elements		2		(mg/kg)		(mg/kg)	
		1st + 2nd	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
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

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Report No.: STSGZ2208193025E Page 8 of 10 Date: 25-Aug-2022

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	-	-	-	-

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

Material List:

Material #	Position / Sample Description
1	Black plastic, holder
2	Silvery metal, body

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Report No.: STSGZ2208193025E Date: 25-Aug-2022 Page 9 of 10

Photo(s):



<<<< END OF REPORT >>>>>

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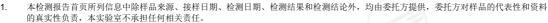






Report No.: STSGZ2208193025E Date: 25-Aug-2022 Page 10 of 10

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