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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: Wood pepper grinder

Model/Style/Item #: MO6771

Receiving Date: 1-Sep-2022, 13-Sep-2022

Test Period: From 1-Sep-2022 to 14-Sep-2022

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	Formaldehyde - EN 71-9:2005+A1:2007	EN 717-3:1996, analyzed by Spectrophotometer(UV)	PASS			
3	Extractable Heavy Metal (Lead (Pb), Cadmium (Cd), Mercury (Hg)) - Paper and board intended to come into contact with foodstuffs - AP2002	EN 12497:2005 & EN 12498:2018 and determined by ICP-MS	PASS			
4	Pentachlorophenol (PCP) - Paper and board intended to come into contact with foodstuffs - AP2002	EN ISO 15320:2011 and determined by GC/MS	PASS			
5	Specific Migration of Formaldehyde - Paper and board intended to come into contact with foodstuffs AP2002	EN 1541:2001, cold water extraction and determined by UV-Vis	PASS			
6	Extractable Lead, Cadmium - Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC and its amendment 2005/31/EC	EN 1388-1:1995, determined by ICP-OES	PASS			
7	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			

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



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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	4	(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	erial		Limit	RL
	Compound		6	7	8	(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	-	-

Remark(s): (a) mg/kg: milligram per kilogram

(b) RL: Report limit

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

2. Formaldehyde - EN 71-9:2005+A1:2007 EN 717-3: 1996, analyzed by UV-Vis

	Compound	Result(s)	Limit	RL
	Compound	2	(mg/kg)	(mg/kg)
1	Formaldehyde	N.D.	80	10
	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligrams per kilogram (b) RL: report limit

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3. Extractable Heavy Metal (Lead (Pb), Cadmium (Cd), Mercury (Hg)) - Paper and board intended to come into contact with foodstuffs - AP2002

EN 12497:2005 & EN 12498:2018 and determined by ICP-MS

		Material			
	Compound	Material	Limit	RL	
	·	2	(mg/dm²)	(mg/dm²)	
1	Lead (Pb)	N.D.	0.003	0.002	
2	Cadmium (Cd)	N.D.	0.002	0.002	
3	Mercury (Hg)	N.D.	0.002	0.002	
	Conclusion	PASS	-	-	

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

(b) RL: Report limit

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

4. Pentachlorophenol (PCP) - Paper and board intended to come into contact with foodstuffs - AP2002 EN ISO 15320:2011 and determined by GC/MS

	Commonad	Material	Limit	RL
	Compound	2	(mg/kg)	(mg/kg)
1	Pentachlorophenol CAS# 87-86-5	N.D.	0.15	0.1
	Conclusion	PASS	-	-

Remark(s): (a) mg/kg: milligram per kilogram

(b) RL: Report limit

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

 Specific Migration of Formaldehyde - Paper and board intended to come into contact with foodstuffs -AP2002

EN 1541:2001, cold water extraction and determined by UV-Vis

	Compound	Material	Limit	RL	
	Compound	2	(mg/kg)	(mg/kg)	
1	Formaldehyde	N.D.	15	1	
	Conclusion	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)

Extractable Lead, Cadmium - Regulation (EC) No 1935/2004, the Council of Europe Directive 84/500/EEC 6. and its amendment 2005/31/EC EN 1388-1:1995, determined by ICP-OES

Test Condition: 4% Acetic acid, 22℃, 24h

Took on a differentian		Result(s)	Limit	RL
	Test specification	8	(mg/L)	(mg/L)
1	Lead (Pb)	N.D.	4.0	0.1
2	Cadmium (Cd)	N.D.	0.3	0.01
	Conclusion	PASS	-	-

Remark(s): (a) mg/L: milligram per litre (b) RL: Report limit

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

7. 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

Test condition: Water, 40 °C , 0.5h, 3 times

		Mat	erial	Lin		RL		
	Elements		5	(mg/	/kg)	(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	
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 (AI)	N.D.	N.D.	35	5	2	1	

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

Test condition: 0.5% Citric acid, 40 $^{\circ}\text{C}$, 0.5h, 3 times

Elements			erial 6		mit /kg)		RL J/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
3	Iron (Fe)	N.D.	N.D.	280	40	2	1

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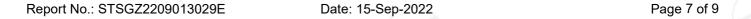
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4	Manganese (Mn)	N.D.	N.D.	12.6	1.8	0.2	0.1
5	Zinc (Zn)	N.D.	N.D.	35	5	2	1
6	Aluminum (Al)	N.D.	N.D.	35	5	2	1
7	Barium (Ba)	N.D.	N.D.	8.4	1.2	0.2	0.1
8	Chromium (Cr)	N.D.	N.D.	1.75	0.25	0.1	0.05
9	Nickel (Ni)	N.D.	N.D.	0.98	0.14	0.1	0.05
10	Lithium (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
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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	-	-	-	-

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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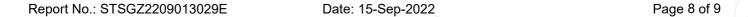
Material List:

Material #	Position / Sample Description
1	Transparent coating,shell
2	Brown wood,shell
3	Silvery metal,nut
4	Silvery metal,cover holder
5	Silvery metal,axis
6	Silvery metal plate,bottom
7	Transparent plastic,holder
8	White ceramic,bottom

Remark(s): (a)The test material point is selected by client, the chemical test conclusions in the report only apply to the test material. (b)The data of #3 was retesting result.

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