



TEST REPORT

Report No.: STSGZ2209013029E

Date: 15-Sep-2022

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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*****

Signed for and on behalf of STS

Tim Qi
(Technical Director)



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Result:

1. 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	3	4		
1 Lead(Pb) CAS#7439-92-1	N.D.	N.D.	N.D.	N.D.	500	10
Conclusion	PASS	PASS	PASS	PASS	-	-

Compound	Material				Limit (mg/kg)	RL (mg/kg)
	5	6	7	8		
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 (mg/kg)	RL (mg/kg)
	2		
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

Compound		Material	Limit (mg/dm ²)	RL (mg/dm ²)
		2		
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

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		2		
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)

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

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

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

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

Test Condition: 4% Acetic acid, 22°C, 24h

Test specification		Result(s)	Limit (mg/L)	RL (mg/L)
		8		
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

Elements		Material		Limit (mg/kg)		RL (mg/kg)	
		5					
		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 (Al)	N.D.	N.D.	35	5	2	1

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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 (Tl)	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	-	-	-	-

Test condition: 0.5% Citric acid, 40 °C , 0.5h, 3 times

Elements	Material	6		Limit (mg/kg)		RL (mg/kg)	
		1st + 2nd	3rd	1st + 2nd	3rd	1st + 2nd	3rd
		1	Tin (Sn)	N.D.	N.D.	700	100
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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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 (Tl)	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
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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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Photo(s):



Product Photo

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