



TEST REPORT

Report No.: STSGZ2404233056E

Date: 22-May-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: Foldable knife with acacia

Model/Style/Item #: MO2297

Vendor Code: 107978

Receiving Date: 23-Apr-2024, 16-May-2024

Test Period: From 23-Apr-2024 to 21-May-2024

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	Pentachlorophenol (PCP) content - POPs European Regulation (EU) 2019/1021 Annex I	In house method, determined by GC-MS	PASS
Regulation (EC) No 1935/2004, Council of Europe Resolution CMRes(2013)9			
4	Extractable Heavy metal	CM/Res(2013)9, 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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Guangzhou Depuhua Test Services Co. Ltd.

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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		
1	Lead(Pb) CAS#7439-92-1	45	86	N.D.	500	10
	Conclusion	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 With reference to EN 717-3:1996, analyzed by UV Spectrophotometer (UV).

Compound		Material	Limit (mg/kg)	RL (mg/kg)
		7		
1	Formaldehyde	N.D.	80	10
	Conclusion	PASS	-	-

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

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3. Pentachlorophenol (PCP) content - POPs European Regulation (EU) 2019/1021 Annex I In house method, determined by GC-MS

Compound		Material		Limit (mg/kg)	RL (mg/kg)
		7			
1	Pentachlorophenol(PCP) CAS#87-86-5	N.D.		Not Detected	5
Conclusion		PASS		-	-

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

Regulation (EC) No 1935/2004, Council of Europe Resolution CMRes(2013)9

4. Specific Migration of Heavy Metal CM/Res(2013)9, determined by ICP-OES and ICP-MS

Test condition: 0.5%citric acid , 40°C,0.5h

Elements		Material		Limit (mg/kg)		RL (mg/kg)	
		3		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
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

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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)	0.003	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 #	Sample Description / Position	Material
1	Silvery metal,handle	-
2	Silvery metal,blade holder	-
3	Silvery metal,blade	Stainless steel
4	Silvery metal,rivet	-
5	Golden metal, rivet	-

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6	Golden metal, tube	-
7	Brown wood,handle	-

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):



Test Sample photo

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

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