



# TEST REPORT

Report No.: STSGZ2112223024E

Date: 6-Jan-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 cup with handle

**Vendor code:** MO6363

**Receiving Date:** 22-Dec-2021,29-Dec-2021

**Test Period:** From 22-Dec-2021 to 6-Jan-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	Wood moisture - As Client's Requirement	In-house Method	PASS
4	Specific migration of Heavy Metal for Plastic Materials in Contact with Foodstuffs - 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
5	Overall migration for Plastic Materials in Contact with Foodstuffs - 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	Pentachlorophenol (PCP) content - Regulation (EC) No 1935/2004, and the Commission Regulation AP(2004)2	EN/ISO 15320:2011, determined by GC-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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#	Test Item(s)	Reference Standard/Method	Result
7	Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006	IEC 62321-5:2013, determined by AAS	PASS
8	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
9	Specific Migration of Formaldehyde - Regulation (EC) No 1935/2004, and the Commission Regulation AP(2004)2	DD CEN/TS 13130-23:2005, determined by UV-Vis	PASS

## Result:

### 1. Total Lead content IEC 62321-5:2013, determined by AAS

Compound		Result(s)	Limit (mg/kg)	RL (mg/kg)
		1		
1	Lead(Pb) CAS#7439-92-1	N.D.	500	10
<b>Conclusion</b>		<b>PASS</b>	-	-

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

### 2. Formaldehyde Release EN 717-3: 1996,analyzed by UV-Vis

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

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

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### 3. Wood moisture In-house Method

Item		Result(s)	Client's Limit (%)	RL (%)
		2		
1	Moisture	4.25	15	1
Conclusion		PASS	-	-

Remark(s): (a) %: mass percentage  
(b) RL: report limit

### 4. Specific migration of Heavy Metal for Plastic Materials in Contact with Foodstuffs EN 13130-1: 2004, determined by ICP-OES

Test condition: 3% acetic acid, 70 °C , 2h

Compound		Material			Limit (mg/kg)	RL (mg/kg)
		1				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	Aluminum (Al)	N.D.	N.D.	N.D.	1	0.1
2	Ammonium	N.D.	N.D.	N.D.	-	0.1
3	Antimony (Sb)	N.D.	N.D.	N.D.	0.04	0.01
4	Arsenic (As)	N.D.	N.D.	N.D.	Not Detected	0.01
5	Barium (Ba)	N.D.	N.D.	N.D.	1	0.1
6	Cadmium(Cd)	N.D.	N.D.	N.D.	Not Detected	0.002
7	Calcium(Ca)	N.D.	N.D.	N.D.	-	0.1
8	Chromium (Cr)	N.D.	N.D.	N.D.	Not Detected	0.01
9	Cobalt (Co)	N.D.	N.D.	N.D.	0.05	0.01
10	Copper (Cu)	N.D.	N.D.	N.D.	5	0.5
11	Europium (Eu)	N.D.	N.D.	N.D.	0.05*	0.01
12	Gadolinium (Gd)	N.D.	N.D.	N.D.	0.05*	0.01
13	Iron (Fe)	N.D.	N.D.	N.D.	48	1

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14	Lanthanum (La)	N.D.	N.D.	N.D.	0.05*	0.01
15	Lead(Pb)	N.D.	N.D.	N.D.	Not Detected	0.01
16	Lithium (Li)	N.D.	N.D.	N.D.	0.6	0.1
17	Magnesium(Mg)	N.D.	N.D.	N.D.	-	0.1
18	Manganese (Mn)	N.D.	N.D.	N.D.	0.6	0.05
19	Mercury(Hg)	N.D.	N.D.	N.D.	Not Detected	0.01
20	Nickel (Ni)	N.D.	N.D.	N.D.	0.02	0.01
21	Potassium(K)	N.D.	N.D.	N.D.	-	0.1
22	Sodium(Na)	N.D.	N.D.	N.D.	-	0.1
23	Terbium (Tb)	N.D.	N.D.	N.D.	0.05*	0.01
24	Zinc (Zn)	N.D.	N.D.	N.D.	5	1
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

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

## 5. Overall migration for Plastic Materials in Contact with Foodstuffs EN 1186-1:2002 & EN 1186-3:2002

	Test specification	Material			Limit (mg/dm <sup>2</sup> )	RL (mg/dm <sup>2</sup> )
		1				
		1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>		
1	10% Ethanol, 70°C , 2h	12.01	4.47	4.15	10	3
2	3% Acetic acid , 70°C , 2h	N.D.	N.D.	N.D.	10	3
3	95% Ethanol, 60°C , 2h	5.07	N.D.	N.D.	10	3
4	Isooctane, 40°C , 0.5h	N.D.	N.D.	N.D.	10	3
<b>Conclusion</b>		-	-	<b>PASS</b>	-	-

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Remark(s): (a) mg/dm<sup>2</sup>: milligram square decimetre  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

## 6. Pentachlorophenol (PCP) content EN/ISO 15320:2011, determined by GC-MS

Compound		Result(s)	Limit (mg/kg)	RL (mg/kg)
		2		
1	Pentachlorophenol(PCP)	N.D.	0.15	0.05
<b>Conclusion</b>		<b>PASS</b>	-	-

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

## 7. Cadmium content -Item 23 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		
1	Cadmium (Cd) CAS#7440-43-9	N.D.	100	10
<b>Conclusion</b>		<b>PASS</b>	-	-

## 8. 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

Compound			Material	Limit (%)	RL (%)
			1		
1	DBP	Dibutyl Phthalate CAS# 84-74-2	N.D.	-	0.005
2	BBP	Benzylbutyl Phthalate CAS# 85-68-7	N.D.	-	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

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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	-
<b>Conclusion</b>			<b>PASS</b>	-	-

Remark(s): (a) RL: Report limit  
(b) N.D.: Not detected (result is less than RL)

## 9. Specific Migration of Formaldehyde DD CEN/TS 13130-23:2005, determined by UV-Vis

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

Test specification		Material	Limit (mg/kg)	RL (mg/kg)
		2		
1	Formaldehyde	N.D.	15	1
<b>Conclusion</b>		<b>PASS</b>	-	-

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

## Material List:

Material #	Position / Sample Description
1	Transparent brownness coating,cup <sup>*a</sup>
2	Brownness wood,cup <sup>*b</sup>

Remark: (a) The test date was copies fromSTSGZ2112223023E.

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Photo(s):



Product Photo

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