

TEST REPORT

Applicant : Mid Ocean HongKong Ltd.

Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, HongKong.

Sample description : MO6741 Double walled ice bucket

Item no. : MO6741

Sample received date : 10-Dec-2024

Sample resubmission date : 08-Jan-2025

Turn around time : 10-Dec-2024 To 10-Jan-2025

The following test item(s) was/were performed on submitted sample(s) and/or component(s) confirmed by applicant

TEST REQUESTED	TEST METHOD/REGULATION	RESULT
Total Lead Content	REACH Annex XVII, Entry 63	Pass
Polycyclic Aromatic Hydrocarbons (PAHs)	REACH Annex XVII, Entry 50	Pass
Phthalates Content	REACH Annex XVII, Entry 51 & 52	Pass
Total Cadmium Content	REACH Annex XVII, Entry 23	Pass
Specific Migration of Formaldehyde	French DGCCRF Note Information No. 2012-93	Pass
Specific Release of Heavy Metals	European Directorate for the Quality of Medicines & Healthcare (EDQM)- Technical Guide on Metals and alloys used in food contact materials and articles (2nd Edition,2024)	Pass
Pentachlorophenol (PCP) Content	With reference to 64 LFGB B 82.02-8:2001	Pass

Samples are obtained by express delivery, Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to info.sh@cpt.eurofinscn.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd. If you happen to have any complaints, please do it by sending email to info.sh@cpt.eurofinscn.com and referring to this report number.



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***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

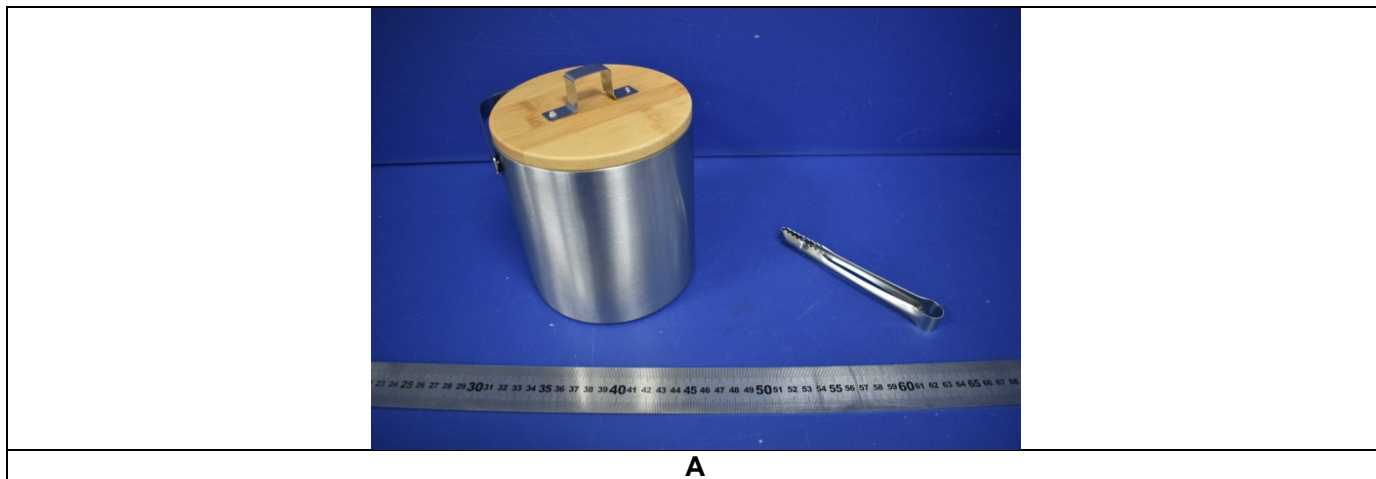
Signed for and on behalf of
Eurofins MTS Consumer Product Testing (Shanghai) Co., Ltd.

Linda



Linda Jin
Chemical Division Assistant Manager SLTH

SAMPLE PHOTO(S)



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EFW524121799-CG-01

TO BE CONTINUED

COMPONENT LIST

Component No.	Component	Sample No.
1	Silver stainless steel bucket inner wall	A
2	Natural color bamboo lid	A
3	Transparent coating on wood (lid)	A
4	Silver 201 stainless steel (handle of bucket/outer wall of ice bucket/handle on lid)	A
5	Silver metal (screw/lid)	A

TO BE CONTINUED

TEST RESULT

Total Lead Content

Test Request: Total lead content as specified in entry 63 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 2015/628.

Test Method: EPA 3050B:1996, EPA 3051A:2007, EPA 3052:1996, acid digestion/ microwave digestion method was used, analysis was performed by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result		
				1	2	3
Lead (Pb)	mg/kg	500	10	ND	ND	ND

Test Item(s)	Unit	Limit	MDL	Result	
				4	5
Lead (Pb)	mg/kg	500	10	ND	ND

Remark:

mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Request: Polycyclic Aromatic Hydrocarbons (PAHs) content as specified in entry 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its latest amendment.

Test Method: Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2019:01 PAK.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					3
Benzo(a)anthracene	56-55-3	mg/kg	1	0.1	ND
Chrysene	218-01-9	mg/kg	1	0.1	ND
Benzo(b)fluoranthene	205-99-2	mg/kg	1	0.1	ND
Benzo(j)fluoranthene	205-82-3	mg/kg	1	0.1	ND
Benzo(k)fluoranthene	207-08-9	mg/kg	1	0.1	ND
Benzo(a)pyrene	50-32-8	mg/kg	1	0.1	ND
Dibenzo(a,h)anthracene	53-70-3	mg/kg	1	0.1	ND
Benzo(e)pyrene	192-97-2	mg/kg	1	0.1	ND

Remarks:

mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Phthalates Content

Test Request: Phthalates content as specified in entry 51&52 of annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Commission Regulation (EU) 2018/2005.

Test Method: EPA 3550C:2007, EPA 8270E:2018, solvent extraction and quantification by GC-MS.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					3
Di-n-butyl phthalate (DBP)	84-74-2	%	-	0.005	ND
Benzylbutyl phthalate (BBP)	85-68-7	%	-	0.005	ND
Diethylhexyl phthalate (DEHP)	117-81-7	%	-	0.005	ND
Di-iso-butyl phthalate (DIBP)	84-69-5	%	-	0.005	ND
Sum of DEHP+DBP+BBP+DIBP	-	%	0.1	-	ND
Di-n-octyl phthalate (DNOP)	117-84-0	%	-	0.005	ND
Diisononyl phthalate (DINP)	28553-12-0	%	-	0.005	ND
Diisodecyl phthalate (DIDP)	26761-40-0	%	-	0.005	ND
Sum of DNOP, DINP, DIDP	-	%	0.1	-	ND

Remarks:

MDL = method detection limit

ND = Not detected, less than MDL

"-" = Not Regulated

TO BE CONTINUED

TEST RESULT

Total Cadmium Content

Test Request: Total cadmium content as specified in Commission Regulation (EU) 2016/217 amending entry 23 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EPA 3050B:1996, EPA 3052:1996, EN 1122:2001 Method B, acid digestion method was used and total cadmium content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result	
				3	
Cadmium (Cd)	mg/kg	1000	5	12	

Remark:

mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

Total Cadmium Content

Test Request: Total cadmium content as specified in Commission Regulation (EU) 2016/217 amending entry 23 of Annex XVII of REACH Regulation (EC) No 1907/2006.

Test Method: EPA 3050B:1996, EPA 3052:1996, EN 1122:2001 Method B, acid digestion method was used and total cadmium content was determined by ICP-OES.

Test Item(s)	Unit	Limit	MDL	Result	
				1	2
Cadmium (Cd)	mg/kg	100	5	ND	ND

Test Item(s)	Unit	Limit	MDL	Result	
				4	5
Cadmium (Cd)	mg/kg	100	5	ND	ND

Remark:

mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

TO BE CONTINUED

TEST RESULT

Specific Migration of Formaldehyde

Test Request: Specific migration of formaldehyde as specified in French Décret 2007-766 with amendments and French DGCCRF Note Information No. 2012-93.

Test Method: With reference to Regulation (EU) No 10/2011 and its amendments for selection of test condition, and EN 13130-1:2004 for test preparation method, analysis was performed by CEN/TS 13130-23:2005.

Simulant Used: Acetic Acid 3%

Test Condition: 2h at 70° C

Test Item(s)	CAS No.	Unit	Limit	MDL	Result		
					2		
					1 st	2 nd	3 rd
Formaldehyde	50-00-0	mg/kg	15	1	ND	ND	ND

Remark:

mg/kg = milligram per kilogram

MDL = method detection limit

ND = Not detected, less than MDL

Test condition & simulant were specified by client.

TO BE CONTINUED

TEST RESULT

Specific Release of Heavy Metals

Test Request: To determine specific release of heavy metals for compliance with European Directorate for the Quality of Medicines & Healthcare (EDQM)- Technical Guide on Metals and alloys used in food contact materials and articles (2nd Edition,2024).

Test Method: With reference to European Directorate for the Quality of Medicines & Healthcare (EDQM)- Technical Guide on Metals and alloys used in food contact materials and articles (2nd Edition,2024) for sample preparation and JRC Guidelines on testing conditions for kitchenware articles in contact with foodstuffs for test condition selection, analysis was performed by ICP-MS.

Simulant Used: 0.5% Citric acid

Test Condition: 2h at 70° C

Test Item(s)	Unit	MDL	Result			
			1			
			1 st + 2 nd Migration		3 rd Migration	
			Result	7xSRL ^{*2}	Result	SRL ^{*1}
Aluminum (Al)	mg/kg	0.5	ND	35	ND	5
Antimony (Sb)	mg/kg	0.01	ND	0.28	ND	0.04
Chromium (Cr)	mg/kg	0.05	ND	7	ND	1
Cobalt (Co)	mg/kg	0.005	ND	0.14	ND	0.02
Copper (Cu)	mg/kg	0.5	ND	28	ND	4
Iron (Fe)	mg/kg	5	ND	280	ND	40
Manganese (Mn)	mg/kg	0.01	ND	3.85 ^{*4}	ND	0.55 ^{*4}
Molybdenum (Mo)	mg/kg	0.01	ND	0.84	ND	0.12
Nickel (Ni)	mg/kg	0.01	ND	0.98	ND	0.14
Silver (Ag)	mg/kg	0.01	ND	0.56	ND	0.08
Tin ^{*3} (Sn)	mg/kg	5	ND	700	ND	100
Vanadium (V)	mg/kg	0.001	ND	0.07	ND	0.01
Zinc (Zn)	mg/kg	0.5	ND	35	ND	5
Arsenic (As)	mg/kg	0.0005	ND	0.014	ND	0.002
Barium (Ba)	mg/kg	0.1	ND	8.4	ND	1.2
Beryllium (Be)	mg/kg	0.001	ND	0.07	ND	0.01
Cadmium (Cd)	mg/kg	0.001	ND	0.035	ND	0.005
Lead (Pb)	mg/kg	0.001	ND	0.07	ND	0.01
Lithium (Li)	mg/kg	0.005	ND	0.336	ND	0.048
Mercury (Hg)	mg/kg	0.0005	ND	0.021	ND	0.003
Thallium (Tl)	mg/kg	0.0002	ND	0.007	ND	0.001
Zirconium (Zr)	mg/kg	0.1	ND	14	ND	2
Magnesium (Mg)	mg/kg	0.1	ND	-	ND	-
Titanium (Ti)	mg/kg	0.1	ND	-	ND	-

TO BE CONTINUED

TEST RESULT

Remark:

- (1) mg/kg = milligram per kilogram
(2) MDL = method detection limit
(3) ND = not detected (<MDL)
(4) SRL = Specific Release Limit
(5) Test condition & simulant were specified by client.
(6) *1 Compliance is established on the result from the third migration test for repeated used articles.
(7) *2 Meantime, the sum of the results of the first and second tests should not exceed 7 times the SRL
(8) *3 Except in field of application under Commission Regulation (EU) 2023/915
(9) *4 SRL:0.07 mg/kg and 7xSRL:0.49 mg/kg particularly for materials and articles intended for contact with milk, milk products and other non-alcoholic drinks as well as any food especially intended for infants and toddlers; SRL:0.55 mg/kg and 7xSRL:3.85 mg/kg for the others.

Pentachlorophenol (PCP) Content

Test Request: Pentachlorophenol (PCP) content as specified in client's request

Test Method: With reference to 64 LFGB B 82.02-8:2001, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit	Limit	MDL	Result
					2
Pentachlorophenol (PCP)	87-86-5	mg/kg	0.15	0.05	ND

Remarks:

mg/kg = milligram per kilogram
MDL = method detection limit
ND = Not detected, less than MDL

END OF THE REPORT