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# Test Report

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Report No. : AGC05443220334-001S1

**SAMPLE NAME** : Harmonica in ABS with bamboo  
**MODEL NAME** : MO6628  
**APPLICANT** : MID OCEAN BRANDS B.V  
**STANDARD(S)** : Please refer to the following page(s).  
**DATE OF ISSUE** : May 11, 2022

***Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.***

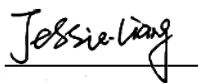


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Applicant : MID OCEAN BRANDS B.V  
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.  
Test Site : 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

**Report on the submitted sample(s) said to be:**

Sample Name : Harmonica in ABS with bamboo  
Model : MO6628  
Country of origin : CHINA  
Country of destination : EUROPE  
Vendor code : 114276  
Sample Received Date : Mar.31, 2022  
Testing Period : Mar.31, 2022 to May 10, 2022

Approved by: 

Liangdan, Jessie.Liang

Technical Director

## Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	May 10, 2022	Invalid	Initial release
S1	May 11, 2022	Valid	Modification of Formaldehyde Release of Limit

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Test Requested:	Conclusion
1. As specified by client, to determine the Phthalates content in the submitted sample(s) with reference to entry 51&52, Annex XVII of the REACH Regulation (EC) No 1907/2006.	<b>Pass</b>
2. As specified by client, to determine the Cadmium(Cd) content in the submitted sample(s) with reference to entry 23, Annex XVII of the REACH Regulation (EC) No 1907/2006.	<b>Pass</b>
3. As specified by client, to determine the Lead(Pb) content in the submitted sample(s) with reference to entry 63, Annex XVII of the REACH Regulation (EC) No 1907/2006.	<b>Pass</b>
4. As specified by client, to determine the Formaldehyde Release in the submitted sample(s).	<b>Pass</b>
5. As specified by client, the following items are determined in the submitted sample with reference to Regulation 1935/2004/EC, Regulation(EU) No 10/2011& (EU)2018/213& (EU) 2020/1245 for:	
- Overall Migration (3% Acetic acid, 50% ethanol)	<b>Pass</b>
- Specific migration of Acrylonitrile	<b>Pass</b>
- Bisphenol A(BPA) content	<b>Pass</b>
- Specific Migration of Aromatic Amines	<b>Pass</b>
- Specific Migration of Heavy metals	<b>Pass</b>
6. As specified by client, the following items are determined in the submitted sample with reference to Regulation 1935/2004/EC, Regulation(EU) No 10/2011 for: Pentachlorophenol (PCP) Content Specific Migration of Formaldehyde	<b>Pass</b> <b>Pass</b>

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**Test Result:**
**1. Test Result of Phthalates Content**

Test Item	Test Method/ Instrument	MDL	Limit
Diisobutyl phthalate(DIBP) (CAS No.: 84-69-5)	EN 14372:2004/ GC-MS	0.010%	Single<0.1% Sum<0.1%
Dibutyl phthalate (DBP) (CAS No.: 84-74-2)		0.010%	
Butylbenzyl phthalate (BBP) (CAS No.: 85-68-7)		0.010%	
Di-(2-ethylhexyl) Phthalate (DEHP) (CAS No.: 117-81-7)		0.010%	Sum<0.1%
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)		0.010%	
Di-isononyl phthalate (DINP) (CAS No.: 28553-12-0;68515-48-0)		0.010%	
Di-isodecyl phthalate(DIDP) (CAS No.: 26761-40-0; 68515-49-1)		0.010%	

Test point	Test result (%)									Conclusion
	DIBP	DBP	BBP	DEHP	Sum(DIBP+DBP+BBP+DEHP)	DNOP	DINP	DIDP	Sum(DNOP+DINP+DIDP)	
1-1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	Conformity

**2. Test Result of Cadmium(Cd)Content**

Test Item	Cadmium(Cd) (CAS No.: 7440-43-9)
Limit(mg/kg)	<100
MDL(mg/kg)	10
Test Method/ Instrument	IEC 62321-5:2013/ ICP-OES

Test point	Test result (mg/kg)	Conclusion
	Cadmium(Cd)	
1-1	N.D.	Conformity

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### 3. Test Result of Lead(Pb)Content

<b>Test Item</b>	Lead(Pb) (CAS No.: 7439-92-1)
<b>Limit(mg/kg)</b>	<500
<b>MDL(mg/kg)</b>	10
<b>Test Method/ Instrument</b>	IEC 62321-5:2013/ ICP-OES

Test point	Test result (mg/kg)	Conclusion
	Lead(Pb)	
1-1	19	Conformity
1-2	N.D.	Conformity
1-3	N.D.	Conformity

### 4. Test result of Formaldehyde Release

<b>Test Item(s)</b>	Formaldehyde Release
<b>Limit (Client's Requirement) (mg/kg)</b>	80
<b>MDL (mg/kg)</b>	1
<b>Test Method/ Equipment</b>	EN717-3:1996/ UV-Vis

Test point	Test result (mg/kg)	Conclusion
	Formaldehyde Release	
1-1	N.D.	Conformity

**Note:**

mg/kg =milligram per kilogram  
MDL = Method Detection Limit

N.D.=Not Detected(less than method detection limit)  
%= percentage

**5.1 Test Result(s) of Overall Migration**

 Unit: mg/dm<sup>2</sup>

Test Solution	Test condition	MDL	Test Result(s)			Limit
			1-1			
			1 <sup>st</sup> extractives	2 <sup>nd</sup> extractives	3 <sup>rd</sup> extractives	
3% Acetic acid	70°C, 2h	5	N.D.	N.D.	N.D.	10
50% Ethanol		5	5.3	N.D.	N.D.	10
<b>Conclusion</b>	/	/	<b>Conformity</b>			/

**Note:** -MDL=method detection limit  
 -N.D.=not detected (less than method detection limit)

**5.2 Test result of migration of Acrylonitrile**

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Result(s)	Limit
			3%Acetic acid	
			1-1	
Migration of Acrylonitrile	70°C, 2h / GC-NPD	0.01	N.D.	0.01
<b>Conclusion</b>	/	/	<b>Conformity</b>	/

**Note:** -MDL=method detection limit  
 -N.D.=not detected (less than method detection limit)

**5.3 Test Result(s) of Bisphenol A(BPA) content**

Unit: mg/kg

Test Item(s)	Test Method/ Equipment	MDL	Result(s)	Limit
			1-1	
Bisphenol A(BPA) content	EPA 3540C:1996 EPA 8321B:2007 LC-MS-MS	1	N.D.	Absent
<b>Conclusion</b>	/	/	<b>Conformity</b>	/

**Note:** -MDL=method detection limit  
 -N.D.=not detected (less than method detection limit)  
 - Test result on specimen No.1-1 was resubmitted on May 05, 2022.

#### 5.4 Specific migration of Primary aromatic amines

Test Item(s)	MDL (mg/kg)	Limit (mg/kg)
4-Aminobiphenyl	0.002	N.D.
Benzidine	0.002	N.D.
4-Chloro-o-Toluidine	0.002	N.D.
2-Naphthylamine	0.002	N.D.
4-amino-2',3-dimethylazobenzene	0.002	N.D.
5-Nitro-o-toluidine	0.002	N.D.
4-Chloroaniline	0.002	N.D.
4-Methoxy-m-phenylenediamine	0.002	N.D.
4,4'-Diaminodiphenylmethane	0.002	N.D.
3,3'-Dichlorobenzidine	0.002	N.D.
3,3'-Dimethoxybenzidine	0.002	N.D.
3,3'-Dimethylbenzidine	0.002	N.D.
4,4'-Methylenedi-o-toluidine	0.002	N.D.
6-methoxy-m-toluidine	0.002	N.D.
4,4'-methylenebis[2-chloroaniline]	0.002	N.D.
4,4'-Oxydianiline	0.002	N.D.
4,4'-Thiodianiline	0.002	N.D.
2-Aminotoluene	0.002	N.D.
4-methyl-m-phenylenediamine	0.002	N.D.
2,4,5-Trimethylaniline	0.002	N.D.
2-Methoxyaniline	0.002	N.D.
4-Aminoazobenzene	0.002	N.D.
1,3 phenylenediamine	0.002	N.D.
Total of other primary aromatic amines	0.01	0.01

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Test Item(s)	Test Result(mg/kg)
	1-1
	3% Acetic acid 70°C, 2h
4-Aminobiphenyl	N.D.
Benzidine	N.D.
4-Chloro-o-Toluidine	N.D.
2-Naphthylamine	N.D.
4-amino-2',3-dimethylazobenzene	N.D.
5-Nitro-o-toluidine	N.D.
4-Chloroaniline	N.D.
4-Methoxy-m-phenylenediamine	N.D.
4,4'-Diaminodiphenylmethane	N.D.
3,3'-Dichlorobenzidine	N.D.
3,3'-Dimethoxybenzidine	N.D.
3,3'-Dimethylbenzidine	N.D.
4,4'-Methylenedi-o-toluidine	N.D.
6-methoxy-m-toluidine	N.D.
4,4'-methylenebis[2-chloroaniline]	N.D.
4,4'-Oxydianiline	N.D.
4,4'-Thiodianiline	N.D.
2-Aminotoluene	N.D.
4-methyl-m-phenylenediamine	N.D.
2,4,5-Trimethylaniline	N.D.
2-Methoxyaniline	N.D.
4-Aminoazobenzene	N.D.
1,3 phenylenediamine	N.D.
Total of other primary aromatic amines	N.D.
<b>Conclusion</b>	<b>Conformity</b>

**Note:** -MDL=method detection limit  
-N.D.=not detected (less than method detection limit)

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**5.5 Test Result(s) of Migration of Heavy metals**

Test Item(s)	Test condition/ Equipment	MDL (mg/kg)	Test Result(s) (mg/kg)			Limit (mg/kg)
			1-1			
			1 <sup>st</sup> extractives	2 <sup>nd</sup> extractives	3 <sup>rd</sup> extractives	
Barium (Ba)	3% Acetic acid/ 70°C, 2h/ ICP-OES/ IC	0.1	N.D.	N.D.	N.D.	1
Cobalt (Co)		0.01	N.D.	N.D.	N.D.	0.05
Copper (Cu)		0.25	N.D.	N.D.	N.D.	5
Iron (Fe)		0.25	N.D.	N.D.	N.D.	48
Lithium (Li)		0.1	N.D.	N.D.	N.D.	0.6
Manganese (Mn)		0.1	N.D.	N.D.	N.D.	0.6
Zinc (Zn)		0.25	N.D.	N.D.	N.D.	5
Aluminum (Al)		0.1	N.D.	N.D.	N.D.	1
Europium (Eu)		0.01	N.D.	N.D.	N.D.	/
Gadolinium (Gd)		0.01	N.D.	N.D.	N.D.	/
Lanthanum (La)		0.01	N.D.	N.D.	N.D.	/
Terbium (Tb)		0.01	N.D.	N.D.	N.D.	/
Sum(Eu+Gd+La+Tb)		/	N.D.	N.D.	N.D.	0.05
Antimony (Sb)		0.01	N.D.	N.D.	N.D.	0.04
Arsenic (As)		0.01	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)		0.002	N.D.	N.D.	N.D.	N.D.
Chromium (Cr)		0.01	N.D.	N.D.	N.D.	N.D.
Lead (Pb)		0.01	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)		0.01	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)		0.01	N.D.	N.D.	N.D.	0.02
<b>Conclusion</b>		/	<b>Conformity</b>			/
Ammonium (NH <sub>4</sub> <sup>+</sup> )		0.10	N.D.	N.D.	N.D.	/
Calcium (Ca)		0.01	1.493	N.D.	N.D.	/
Magnesium (Mg)		0.01	0.088	N.D.	N.D.	/
Potassium (K)		0.01	0.140	N.D.	N.D.	/
Sodium (Na)		0.01	0.304	N.D.	N.D.	/

**Note:** -MDL=method detection limit  
-N.D.=not detected (less than method detection limit)

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### 6.1 Test Result(s) of Total Pentachlorophenol (PCP) content

Unit: mg/kg

Test Item	Test Method/ Equipment	MDL	Test Result(s)			Limit
			1-2			
Pentachlorophenol (PCP)	EPA 3550C:2007 EPA 8270E:2018 GC-MS	0.05	N.D.			0.15
<b>Conclusion</b>	/	/	<b>Conformity</b>			/

**Note:** -MDL=method detection limit  
-N.D.=not detected (less than method detection limit)

### 6.2 Special Migration of Formaldehyde

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)			Limit
			1-2			
			1 <sup>st</sup> extractives	2 <sup>nd</sup> extractives	3 <sup>rd</sup> extractives	
Special Migration of Formaldehyde	3% Acetic acid 70°C, 2h/ UV-Vis	5	N.D.	N.D.	N.D.	15
<b>Conclusion</b>	/	/	<b>Conformity</b>			/

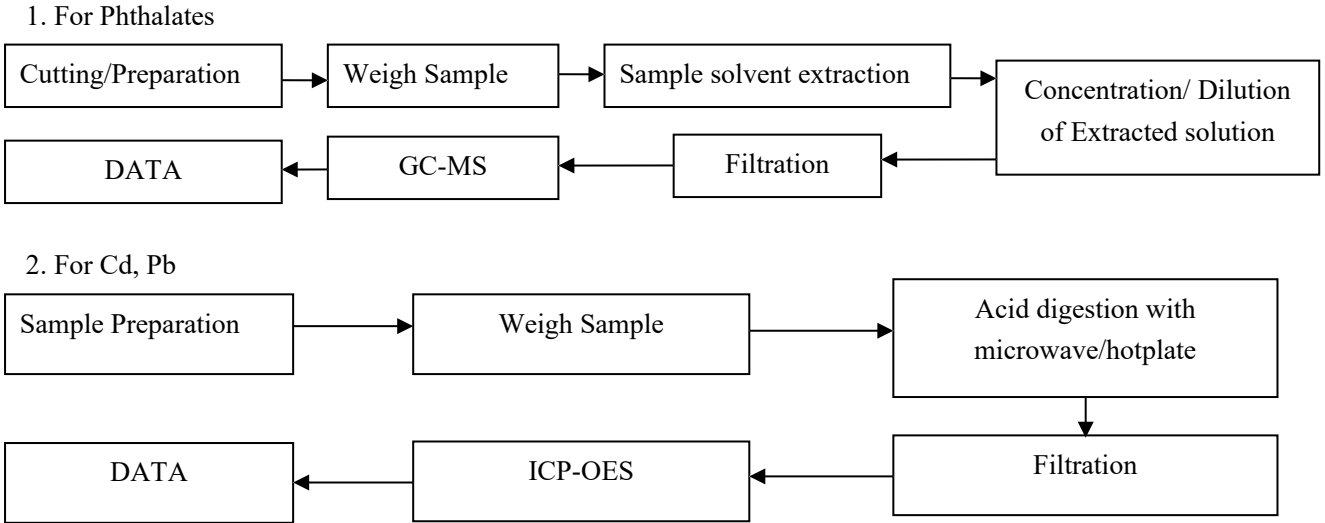
**Note:** -MDL=method detection limit  
-N.D.=not detected (less than method detection limit)

### Test Point Description

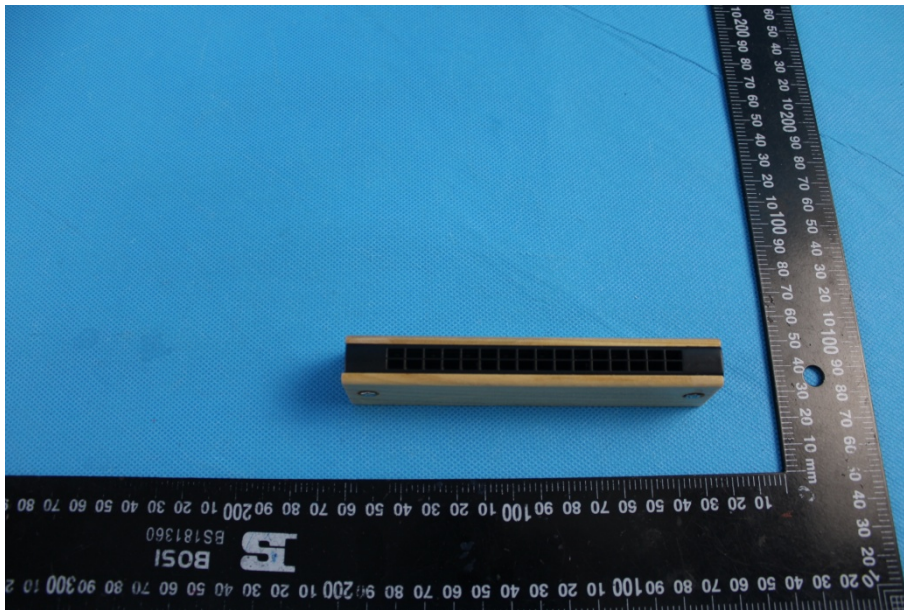
Test point	Test point description
1-1	Black ABS
1-2	Bamboo
1-3	Metal screw

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### Test Flow Chart



### The photo of the sample



**AGC05443220334-001S1**

AGC authenticate the photo only on original report

\*\*\* End of Report \*\*\*

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3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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