

## TEST REPORT

Test Report # 22A-015752(A1) Date of Report Issue: January 6, 2023  
Date of Sample Received: December 21, 2022 Pages: Page 1 of 11

### CLIENT INFORMATION:

Company: Mid Ocean Brands B.V.  
Address: 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong



### SAMPLE INFORMATION:

Product Name:	Manual hand fan	
Style No.:	KC6733	Labeled Age Grade: -
Order No.(PO No.):	-	Client Request Age Grade: -
Country of Origin:	-	Recommended Age Grade: -
Country of Distribution:	Europe	Tested Age Grade: -
Composition/Main Material:	PS	
Testing Period:	12/22/2022-01/06/2023	

### OVERALL RESULT:

**PASS**

Please refer to the following pages for test result summary and appropriate notes.

QIMA (HANGZHOU) TESTING CO., LTD.

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**TEST RESULTS SUMMARY:**

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 27 Nickel Release
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)
PASS	Colour Fastness to Rubbing



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**DETAILED RESULTS:****Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials**

Test Method: CPSC-CH-E1001-08.3 (Metal) and/or CPSC-CH-E1002-08.3 (Non-Metal)  
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	2+3	4+5+6	7+8+9	10	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	ND	ND	ND	ND	500
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

**Note:**

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



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**DETAILED RESULTS:****Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Substrate Materials**

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	2+3	4+5+6	7+8+9	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	ND	ND	ND	---	<b>100</b>
<b>Conclusion</b>	PASS	PASS	PASS	PASS	---	

**Note:**

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LT = Less than

ND = Not detected (Reporting Limit = 15mg/kg)

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**DETAILED RESULTS:****Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 27 Nickel Release**

Test Method: EN 12472:2020&EN 1811:2011+A1:2015<sup>1</sup> / EN 1811:2011+A1:2015<sup>2</sup>  
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

**Direct and Prolonged Contact with Skin**

Specimen No.	10			
	Trial 1	Trial 2	Trial 3	
Test Item	Result	Result	Result	Limit
Size of Tested Sample Area (cm <sup>2</sup> )	2	2	2	
Volume of Test solution Used (mL)	2	2	2	
Nickel result (µg/cm <sup>2</sup> /week) <sup>1</sup>	ND	ND	ND	0.5*
Nickel result (µg/cm <sup>2</sup> /week) <sup>2</sup>	ND	ND	ND	
<b>Conclusion</b>	PASS			

**Note:**cm<sup>2</sup> = Square centimetersµg/cm<sup>2</sup>/week = Micrograms per square centimeter per week

mL = Millilitres

LT = Less than

ND = Not detected (Reporting Limit = 0.1 µg/cm<sup>2</sup>/week)

\*According to EN 1811:2011+A1:2015 Section 9.2.2, the compliance shall be evaluated with the combined measurement uncertainty, an article is:

Pass and permitted to be placed on the market when the nickel release value is less than 0.88 µg/cm<sup>2</sup>/week;Fail when the nickel release value is greater than or equal to 0.88 µg/cm<sup>2</sup>/week.

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**DETAILED RESULTS:**
**Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles**

Test Method: EN ISO 14362-1:2017, EN ISO 14362-3:2017  
 Analytical Method: Gas Chromatography with Mass Spectrometry, Liquid Chromatography with Diode Array Detection / Liquid Chromatography with Mass Spectrometry

Specimen No.	1	---	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)
4-aminobiphenyl	92-67-1	ND	---	---	30
Benzidine	92-87-5	ND	---	---	30
4-chloro-o-toluidine	95-69-2	ND	---	---	30
2-naphthylamine	91-59-8	ND	---	---	30
o-Aminoazotoluene	97-56-3	ND	---	---	30
5-nitro-o-toluidine	99-55-8	ND	---	---	30
4-chloroaniline	106-47-8	ND	---	---	30
2,4-diaminoanisole	615-05-4	ND	---	---	30
4,4'-methylenedianiline	101-77-9	ND	---	---	30
3,3'-dichlorobenzidine	91-94-1	ND	---	---	30
o-dianisidine	119-90-4	ND	---	---	30
3,3'-dimethylbenzidine	119-93-7	ND	---	---	30
4,4'-methylenedi-o-toluidine	838-88-0	ND	---	---	30
p-cresidine	120-71-8	ND	---	---	30
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	ND	---	---	30
4,4'-oxydianiline	101-80-4	ND	---	---	30
4,4'-thiodianiline	139-65-1	ND	---	---	30
o-toluidine	95-53-4	ND	---	---	30
2,4-diaminotoluene	95-80-7	ND	---	---	30
2,4,5-trimethylaniline	137-17-7	ND	---	---	30
2-methoxyaniline	90-04-0	ND	---	---	30
4-aminoazobenzene	60-09-3	ND	---	---	30
<b>Conclusion</b>	<b>PASS</b>	---	---	---	



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**Note:**

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 5 mg/kg)

**Remark:**

In the case of levels per amine component less than or equal to 30 mg/kg, according to the analysis as carried out, azo colorants which can release one or more of certain listed amines by cleavage of their azo group/s were not detected in the commodity submitted.



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**DETAILED RESULTS:**
**Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)**

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		2+3	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	---	---	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	---	---	1000
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	---	---	1000
Diisobutyl phthalate (DIBP)	84-69-5	ND	---	---	1000
Sum of DBP, BBP, DEHP, DIBP		ND	---	---	1000
Di-n-octyl phthalate (DnOP)	117-84-0	ND	---	---	
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	---	---	
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	---	---	
Sum of DnOP, DINP, DIDP		ND	---	---	1000
<b>Conclusion</b>		PASS	---	---	

**Note:**

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % w/w (Percent by weight)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)

Composite results are based on specimen of least mass resulting in highest potential concentration.



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**DETAILED RESULTS:****Colour Fastness to Rubbing**

Test Method: ISO 105-X12: 2016, Size of rubbing finger: 16mm dia.

Specimen No.	1	---	---	---	---	Client's requirement
Items	Result (Grade)					
Dry staining	4-5	---	---	---	---	Min. 2-3
Wet staining	4-5	---	---	---	---	Min. 2-3
Conclusion	PASS	---	---	---	---	-

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.



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**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Black textile	Sector (black style)
2	Black plastic	Framework of fan (black style)
3	White plastic	Framework of fan (white style)
4	Blue plastic	Framework of fan (blue style)
5	Rose plastic	Framework of fan (rose style)
6	Red plastic	Framework of fan (red style)
7	Orange plastic	Framework of fan (orange style)
8	Green plastic	Framework of fan (green style)
9	Yellow plastic	Framework of fan (yellow style)
10	Golden metal	Axle (all styles)



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**SAMPLE PHOTO:**

-End Report-



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