



TEST REPORT

Test Report # 18A-004631-1 Date of Report Issue: October 19, 2018
Date of Sample Received: October 17, 2018 Pages: Page 1 of 8

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: Hammer with bottle opener
Model/style No.: MO8473
Main Material: steel
Buyer: Mid Ocean Brands B.V.
Supplier: 100396
Country of Distribution: EU
Testing Period: 10/17/2018-10/19/2018

OVERALL RESULT:

PASS

Refer to page 2 for test result summary and appropriate notes.

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*The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.
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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 50 Polycyclic Aromatic Hydrocarbon (PAH)
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DnOP, DINP, DIDP)





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	---	---	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	---	---	500
Conclusion	PASS	PASS	PASS	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

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





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	---	---	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	---	---	100
Conclusion	PASS	PASS	PASS	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

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



**DETAILED RESULTS:****Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 50 Polycyclic Aromatic Hydrocarbon (PAH)**

Test Method: AfPS GS 2014:01

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1	2	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Benzo [a] pyrene (BaP)	50-32-8	ND	ND	---	---	1
Benzo [e] pyrene (BeP)	192-97-2	ND	ND	---	---	1
Benzo [a] anthracene (BaA)	56-55-3	ND	ND	---	---	1
Chrysene (CHR)	218-01-9	ND	ND	---	---	1
Benzo [b] fluroanthene (BbFA)	205-99-2	ND	ND	---	---	1
Benzo [j] fluroanthene (BjFA)	205-82-3	ND	ND	---	---	1
Benzo [k] fluroanthene (BkFA)	207-08-9	ND	ND	---	---	1
Dibenzo [a,h] anthracene (DBA _h A)	53-70-3	ND	ND	---	---	1
Conclusion		PASS	PASS	---	---	

Note:

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 0.2 mg/kg)



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

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1	2	---	---	Limit (% m/m)
Test Item	CAS No.	Result (% m/m)	Result (% m/m)	Result (% m/m)	Result (% m/m)	
Dibutyl phthalate (DBP)	84-74-2	ND	ND	---	---	
Benzyl butyl phthalate (BBP)	85-68-7	ND	ND	---	---	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	---	---	
Sum of DBP, BBP, DEHP		ND	ND	---	---	0.1
Di-n-octyl phthalate (DnOP)	117-84-0	ND	ND	---	---	
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	ND	---	---	
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	ND	---	---	
Sum of DnOP, DINP, DIDP		ND	ND	---	---	0.1
Conclusion		PASS	PASS	---	---	

Note:

% m/m = Percent by mass

LT = Less than

ND = Not detected (Reporting Limit = 0.015 % m/m)





SPECIMEN DESCRIPTION:

Specimen No.	Specimen Description	Location
1	Black plastic	Handle
2	Black plastic	Ring
3	Silvery metal	Hammer head





SAMPLE PHOTO:



-End Report-

