

TEST REPORT

Test Report # 23A-000932(A1) Date of Report Issue: February 24, 2023

Date of Sample Received: February 13, 2023 Pages: Page 1 of 7

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: MINI TOOL SET WITH LED LIGHT

Style No.: IT3874 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: ABS, aluminum

Testing Period: 02/13/2023-02/24/2023

OVERALL RESULT:

PASS

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

QIMA (HANGZHOU) TESTING CO., LTD.

Loremy. Xu

Jeremy Xu

RC-CSHZ-R007

Chemical Laboratory Supervisor

OIMA Nangzhou) Testing Co., Ltd. • Room 401,4-5/F, Building 1,No.1213 Huoju South Road, Puyan Subdistrict, Binjiang District, Hangzhou, China Email: Labtesting@qima.com • Tel: (86) 571 8999 7158.

Test(s) marked with ' ϕ ' was subcontracted to external laboratory.

神e te result(s) and conclusion(s) in this report relate only to the sample(s) as received and method /regulation section(s) tested as described herein. 機能機制用章 fit is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule (https://www.aima.com/conditions-of-service#decisionRule).





Test Report #: 23A-000932(A1)

TEST RESULTS SUMMARY:

检验检测专用章

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

CONCLUSION	TEST(S) CONDUCTED
PASS	Directive 2011/65/EU and its amendment Directive (EU) 2015/863, Restriction of the Use of Certain Hazardous Substances (RoHS), Heavy metals and Flame retardants content (Pb, Cd, Hg, Cr (VI), PBBs and PBDEs)
PASS	Directive 2011/65/EU and its amendment Directive (EU) 2015/863, Restriction of the Use of Certain Hazardous Substances (RoHS), Phthalates Content (DBP, BBP, DEHP, DIBP)
PASS	EC Directive 2006/66/EC and Amendment 2013/56/EU, Lead, cadmium and mercury content





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DETAILED RESULTS:

检验检测专用章

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Directive 2011/65/EU and its amendment Directive (EU) 2015/863, Restriction of the Use of Certain Hazardous Substances (RoHS), Heavy metals and Flame retardants content (Pb, Cd, Hg, Cr (VI), PBBs and PBDEs)

Test Method: IEC 62321-3-1:2013 for Cadmium, Lead, Mercury, Chromium and Bromine by XRF

IEC 62321-4:2013/AMD1:2017 for Mercury by ICP-OES

IEC 62321-5:2013 for Lead, Cadmium and Chromium by ICP-OES

IEC 62321-6:2015 for PBBs and PBDEs by GC-MS

IEC 62321-7-1:2015, IEC62321-7-2:2017 for Hexavalent Chromium by UV- Vis#

Analytical Method: X-ray Fluorescence Spectrometry

Inductively Coupled Plasma-Optical Emission Spectrometry

Gas Chromatography Mass Spectrometry

UV-Visible Spectrophotometry

No.	Parts Name	Test Item (mg/kg)					Conclusion	
	Parts Name	Pb	Cd	Hg	CrVI	PBBs	PBDEs	Conclusion
1	Packaging bag	BL	BL	BL	BL	BL	BL	PASS
2	Plastic shell with black /silver coating	BL	BL	BL	BL	ND	ND	PASS
3	Black coating	BL	BL	BL	BL	ND	ND	PASS
4	Silver coating	BL	BL	BL	BL	ND	ND	PASS
5	Gray plastic bracket	BL	BL	BL	BL	BL	BL	PASS
6	Screwdriver	BL	BL	BL	BL	-	-	PASS
7	Black plastic button	BL	BL	BL	BL	BL	BL	PASS
8	Black plastic shell	BL	BL	BL	BL	BL	BL	PASS
9	Metal spring	BL	BL	BL	BL	-	-	PASS
10	Silver metal sheet	BL	BL	BL	BL	-	-	PASS
11	Lamp-shade	BL	BL	BL	BL	ND	ND	PASS
12	Lamp-wick	BL	BL	BL	BL	BL	BL	PASS
13	Lamp-pin	BL	BL	BL	BL	-	-	PASS

Parameter	Unit	Requirement	Method Detection Limit (MDL)
Lead (Pb)	mg/kg	1000	15
Cadmium (Cd)	mg/kg	100	15
Mercury (Hg)	mg/kg	1000	15
Chromium VI (Cr VI)	mg/kg	1000	15
Group PBBs	mg/kg	1000	20
Group PBDEs	mg/kg	1000	20



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As specified by client, with XRF analysis toxic harmful substance content, All kinds of matrixes screening of the element is limited see chart (Unit: mg/kg)

Elements	Polymer material	Metal material/ Inorganic nonmetallic material	Electronic component	
Lead (Pb)	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x< (1500+3σ) ≤OL</x< </td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x< (1500+3σ) ≤OL</x< </td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x< (1500+3σ) ≤OL</x< 	
Cadmium (Cd)	BL≤(70-3σ) <x(130+3σ)≤ol< td=""><td>BL≤(70-3σ)<x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<></td></x(130+3σ)≤ol<>	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<>	LOD <x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<>	
Mercury (Hg)	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x< (1500+3σ)≤OL</x< </td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x< (1500+3σ)≤OL</x< </td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x< (1500+3σ)≤OL</x< 	
Chromium (Cr)	BL≤(700-3σ) <x< td=""><td>BL≤(700-3σ)<x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<></td></x<>	BL≤(700-3σ) <x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<>	BL≤(500-3σ) <x< td=""></x<>	
Bromine (Br)	BL≤(300-3σ) <x< td=""><td>-</td><td>BL≤(250-3σ)<x< td=""></x<></td></x<>	-	BL≤(250-3σ) <x< td=""></x<>	

Note:

- 1. Unit: mg/kg= Milligrams per kilogram, 1mg/kg=1ppm=0.0001%
- 2. MDL=Method Detection Limit
- 3. "-" = Not Regulated or Not Applicable
- 4. 3σ = Analysis shows that the instrument reproducibility
- 5. BL = Below Limit by XRF screening;
 - OL = Over Limit by XRF screening.
- 6. ND=Not Detected (< MDL), Result reported with wet chemical confirmation test with ICP-OES
- 7. Ne=Negative, Absence of Cr(VI), the concentration of Cr (VI) in sample solution is less than $0.10\mu g/cm^2$. Po = Positive, Presence of Cr(VI), the concentration of Cr (VI) in sample solution is more than
- $0.13 \mu g/cm^{2}$.

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- Result reported with wet chemical confirmation test with UV-Vis.
- 8. "Results of XRF" is the result on total Br and total Cr while restricted substances are PBBs/PBDEs and Cr(VI).

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DETAILED RESULTS:

Directive 2011/65/EU and its amendment Directive (EU) 2015/863, Restriction of the Use of Certain Hazardous Substances (RoHS), Phthalates Content (DBP, BBP, DEHP, DIBP)

Test Method: IEC 62321-8:2017

Analytical Method: Gas Chromatography/Mass Spectrometry

Specimen No.	1	2+3+4	5+7+8	11		Limit
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	(mg/kg)
DBP	ND	ND	ND	ND		1000
BBP	ND	ND	ND	ND		1000
DEHP	ND	ND	ND	ND		1000
DIBP	ND	ND	ND	ND		1000
Conclusion	PASS	PASS	PASS	PASS		

Note:

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DBP = Dibutyl phthalate; BBP = Benzyl butyl phthalate; DEHP = Di-(2-ethylhexyl) phthalate

DIBP = Di-iso-Butylpthalate Phthalate;

mg/kg = Milligrams per kilogram

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



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DETAILED RESULTS:

EC Directive 2006/66/EC and Amendment 2013/56/EU, Lead, cadmium and mercury content

Test Method: US EPA 3052:1996 & US EPA 6010D:2014

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Components and Parts Name	Item	MDL (mg/kg)	Result (mg/kg)	Limit (mg/kg)
	Lead (Pb)	5	ND	40
14:Battery	Cadmium (Cd)	5	ND	20
	Mercury (Hg)	5	ND	5
Conclusion		-	PASS	-

Note:

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mg/kg = Milligrams per kilogram
MDL=Method Detection Limit
ND = Not detected (< MDL)



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SAMPLE PHOTO:

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-End Report-

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