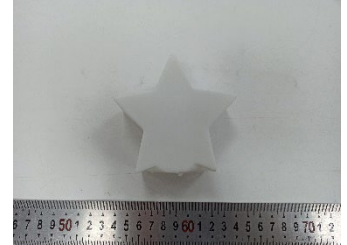


## TEST REPORT

Test Report # 23A-005911(A1) Date of Report Issue: May 30, 2023  
Date of Sample Received: May 22, 2023 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: Xmas light  
Style No.: CX1361/CX1362 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: PVC  
Testing Period: 05/23/2023-05/30/2023

### OVERALL RESULT:

 **PASS**

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

QIMA (HANGZHOU) TESTING CO., LTD.



Jeremy Xu  
Chemical Laboratory Supervisor



QIMA (Hangzhou) 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](mailto:Labtesting@qima.com) • Tel: (86) 571 8999 7158.

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

The test 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.

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## TEST RESULTS SUMMARY:

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:**

**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
		Pb	Cd	Hg	CrVI	PBBs	PBDEs	
1	White plastic shell	BL	BL	BL	BL	BL	BL	PASS
2	Brown plastic bag	BL	BL	BL	BL	BL	BL	PASS
3	White plastic inserts	BL	BL	BL	BL	BL	BL	PASS
4	White plastic box with lid	BL	BL	BL	BL	BL	BL	PASS
5	Silver metal screw	BL	BL	BL	BL	-	-	PASS
6	Battery box-white plastic	BL	BL	BL	BL	BL	BL	PASS
7	Battery box-silvery metal pin	BL	BL	BL	BL	-	-	PASS
8	Battery box-silver spring	BL	BL	BL	BL	-	-	PASS
9	Battery box-soldering tin	BL	BL	BL	BL	-	-	PASS
10	Silver metal block	BL	BL	BL	BL	-	-	PASS
11	Black metal shell	BL	BL	BL	BL	-	-	PASS
12	Silver metal block	BL	BL	BL	BL	-	-	PASS
13	Silver metal small spring	BL	BL	BL	BL	-	-	PASS
14	Lamp-brown plastic	BL	BL	BL	BL	BL	BL	PASS
15	Lamp-silvery metal pin	BL	BL	BL	BL	-	-	PASS
16	Lamp-silver metal block	BL	BL	BL	BL	-	-	PASS
17	Lamp-Shade	BL	BL	BL	BL	ND	ND	PASS
18	Lamp-Wick	BL	BL	BL	BL	BL	BL	PASS
20	Lamp-Pin-soldering tin	BL	BL	BL	BL	-	-	PASS
21	Styles2-white plastic shell	BL	BL	BL	BL	BL	BL	PASS



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**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.  $3\sigma$  = 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  $0.10\mu\text{g}/\text{cm}^2$ .  
Po = Positive, Presence of Cr(VI), the concentration of Cr (VI) in sample solution is more than  $0.13\mu\text{g}/\text{cm}^2$ .  
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+6+14	17	21	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
DBP	ND	ND	ND	ND	---	1000
BBP	ND	ND	ND	ND	---	1000
DEHP	236	ND	ND	198	---	1000
DIBP	ND	ND	ND	ND	---	1000
<b>Conclusion</b>	PASS	PASS	PASS	PASS	---	

*Note:*

DBP = Dibutyl phthalate; BBP = Benzyl butyl phthalate; DEHP = Di-(2-ethylhexyl) phthalate  
 DIBP = Di-iso-Butylphthalate Phthalate;  
 mg/kg = Milligrams per kilogram  
 ND = Not detected (Reporting Limit =150mg/kg)



**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)
19:Battery	Lead (Pb)	6	ND	40
	Cadmium (Cd)	5	ND	20
	Mercury (Hg)	5	ND	5
Conclusion		-	PASS	-

*Note:*

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



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**SAMPLE PHOTO:**



**SAMPLE PHOTO:**



-End Report-

