

## Test report

23A-012117(A1)



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### Overall result

PASS

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

#### Client information

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



#### Sample information

Description: Retractable Knife in aluminium  
SKU/style #: MO2138-14

Country of origin: -  
Country of distribution: -  
Quantity submitted: 5 pcs

Labeled age grade: -  
Tested age grade: -  
Materials: Aluminium alloy

#### General information

Sample receipt date: 28-Sep-2023  
Testing period: 28-Sep-2023 to 12-Oct-2023

Report date: 12-Oct-2023

QIMA (Hangzhou) Testing Co., Ltd.

Jeremy Xu

Chemical Laboratory Supervisor



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Page 1 of 10

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## Result summary

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

Test(s) conducted	Conclusion
Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Paints and Surface Coatings	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 Paints and Surface Coatings	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 as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)	PASS





## Detailed results

### Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Paints and Surface Coatings

Test Method: CPSC-CH-E1003-09.1  
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)					
Total Lead (Pb)	20	---	---	---	---	500
Conclusion	PASS	---	---	---	---	

**Note:**

mg/kg = Milligrams per kilogram

LT = Less than

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

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
2	23A-011702(A1)	2	26-Sep-2023



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Page 3 of 10



## 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	3	4	5	6+7	Limit (mg/kg)
Test Item	Result (mg/kg)					
Total Lead (Pb)	167	ND	ND	ND	ND	<b>500</b>
<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.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1	23A-011702(A1)	1	26-Sep-2023
3	23A-011702(A1)	3	26-Sep-2023
4	23A-011702(A1)	4	26-Sep-2023
5	23A-011702(A1)	5	26-Sep-2023
6+7	23A-011702(A1)	6+7	26-Sep-2023



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Page 4 of 10



## Detailed results

### Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Paints and Surface Coatings

Test Method: ASTM F963-17 Clause 8.3.1  
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	2	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)					
Total Cadmium (Cd)	ND	---	---	---	---	<b>1000</b>
<b>Conclusion</b>	<b>PASS</b>	---	---	---	---	

**Note:**

mg/kg = Milligrams per kilogram

LT = Less than

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

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
2	23A-011702(A1)	2	26-Sep-2023



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Page 5 of 10



## 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	3	4	5	6+7	Limit (mg/kg)
Test Item	Result (mg/kg)					
Total Cadmium (Cd)	ND	ND	ND	ND	ND	<b>100</b>
<b>Conclusion</b>	PASS	PASS	PASS	PASS	PASS	

**Note:**

mg/kg = Milligrams per kilogram

LT = Less than

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

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

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
1	23A-011702(A1)	1	26-Sep-2023
3	23A-011702(A1)	3	26-Sep-2023
4	23A-011702(A1)	4	26-Sep-2023
5	23A-011702(A1)	5	26-Sep-2023
6+7	23A-011702(A1)	6+7	26-Sep-2023



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Page 6 of 10



## Detailed results

### Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 50 Polycyclic Aromatic Hydrocarbon (PAH)

Test Method: AfPS GS 2019:01

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		2	6+7	---	---	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] fluoranthene (BbFA)	205-99-2	ND	ND	---	---	1
Benzo [j] fluoranthene (BjFA)	205-82-3	ND	ND	---	---	1
Benzo [k] fluoranthene (BkFA)	207-08-9	ND	ND	---	---	1
Dibenzo [a,h] anthracene (DBAhA)	53-70-3	ND	ND	---	---	1
<b>Conclusion</b>		PASS	PASS	---	---	

**Note:**

mg/kg = Milligrams per kilogram

LT = Less than

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

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

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
6+7	23A-011702(A1)	6+7	26-Sep-2023



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Page 7 of 10



## 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	6+7	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	
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	---
Diisobutyl phthalate (DIBP)	84-69-5	ND	ND	---
Sum of DBP, BBP, DEHP, DIBP		ND	ND	---
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	---
<b>Conclusion</b>		PASS	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.

Data Consolidation Reference:

Specimen No.	Transferred from		Date of Issue
	Report No.	Specimen No.	
6+7	23A-011702(A1)	6+7	26-Sep-2023



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Page 8 of 10



## Specimen description

Specimen #	Specimen description	Location
1	Silvery metal	Main body
2	Silvery ink	Raw material (main body)
3	Silvery metal	Screw
4	Silvery metal	Blade
5	Silvery metal	Blade groove
6	Black plastic	Push rod
7	Black plastic	Main body end





## Pictures

Sample photo:



End of the report

The test result(s) and conclusion(s) in this report relate only to the sample(s) as received and the method /regulation section(s) tested as described herein. If it is not further specified in the report, the decision rule for stating conformity is based on the QIMA decision rule. (<https://www.qima.com/conditions-of-service#decisionRule> ). This test report may not be reproduced in whole or in part, without the written approval of QIMA (Hangzhou) Testing Co., Ltd.



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Page 10 of 10