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# Test Report

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Report No. : AGC05443240531-001

**SAMPLE NAME** : Foldable knife with carabiner  
**MODEL NAME** : MO2364  
**APPLICANT** : MID OCEAN BRANDS B.V  
**STANDARD(S)** : Please refer to the following page(s).  
**DATE OF ISSUE** : May 30, 2024

**Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.**



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Applicant : MID OCEAN BRANDS B.V  
Address : 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong.  
Test Site : 5,6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China

**Report on the submitted sample(s) said to be:**

Sample Name : Foldable knife with carabiner  
Model : MO2364  
Vendor code : 118628  
Country of Origin : CHINA  
Country of Destination : EUROPE  
Sample receiving state : Normal  
Sample Received Date : May 23, 2024  
Testing Period : May 23, 2024 to May 30, 2024  
Test Requested : Selected test(s) as requested by client.

**Test Requested:****Conclusion**

Mechanical dishwashing safe test


Pass

Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63  
- Lead(Pb) Content

Pass

Regulation 1935/2004/EC and Technical Guide on Metals and alloys used in food contact materials  
of Council of Europe Resolution CM/Res(2013)9  
- Specific migration of Heavy metal

Pass

Approved by: 

Suhongliang, Leon

Technical Director

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## Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	May 30, 2024	Valid	Initial release

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**The photo of the sample**



The photo of AGC05443240531-001 is for use only with the original report.

**Test Point Description**

Test point	Test point description
1-1+1-2+1-3	Blade+Locker plates+Hook body
1-4	Handle
1-5+1-6	Hook spring+Rivet
1-1	Blade

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**Test Results:**

Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%

**Mechanical dishwashing safe test**

<b>Test Result of mechanical dishwashing safe test:</b>
Requirements:For dishwasher safe test, if there is no noticeable change in appearance (e.g. color, size and shape) and function, it should be “PASS”.
Sample No.:MO2364 Test method: Refer to BS EN 12875-1-2005 Washing temperature: 60°C Number of cycle: 10 cycles Number of tested sample: 2 pc(s). Number of control sample: 1 pc(s).
For all tested plastic or metal articles: No visible change of color, gloss and clouding was found on the tested samples after wash. No visible deposit or iridescent layer was found on the tested samples after wash. No visible swelling, deformation, cracking, crazing or delamination was found on the tested samples after wash.

**Annex XVII of the REACH Regulation (EC) No 1907/2006, entry 63**

**- Lead(Pb) Content**

Test Methods and Equipment: IEC 62321-5:2013; ICP-OES

Test Item(s)	Unit	Limit	MDL	Test Result(s)		
				1-1+1-2+1-3	1-4	1-5+1-6
Lead(Pb)	mg/kg	500	10	N.D.	N.D.	N.D.
Conclusion				Conformity	Conformity	Conformity

Remark:

- As specified by client, the submitted samples were mixed to test, the test points: 1-1+1-2+1-3,1-5+1-6

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**- Specific migration of heavy metal:**

Test Method: With reference to EDQM Technical Guide on Metals and alloys used in food contact materials 2013.

Unit: mg/kg

Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			1 <sup>st</sup> + 2 <sup>nd</sup> extractives	
			1-1	
Barium (Ba)	0.5% Citric acid, 70°C, 2h ICP-OES	0.1	N.D.	8.4
Copper (Cu)		0.1	N.D.	28
Iron (Fe)		0.1	N.D.	280
Tin (Sn)		0.1	N.D.	700
Chromium (Cr)		0.01	N.D.	1.75
Manganese (Mn)		0.1	N.D.	12.6
Zinc (Zn)		0.1	N.D.	35
Aluminium (Al)		0.1	N.D.	35
Lithium (Li)		0.01	N.D.	0.336
Beryllium (Be)		0.005	N.D.	0.07
Vanadium (V)		0.005	N.D.	0.07
Nickel (Ni)		0.01	N.D.	0.98
Cobalt (Co)		0.01	N.D.	0.14
Arsenic (As)		0.002	N.D.	0.014
Molybdenum (Mo)		0.01	N.D.	0.84
Silver (Ag)		0.01	N.D.	0.56
Cadmium (Cd)		0.002	N.D.	0.035
Antimony (Sb)		0.01	N.D.	0.28
Mercury (Hg)		0.002	N.D.	0.021
Thallium (Tl)		0.0001	N.D.	0.0007
Lead (Pb)	0.01	N.D.	0.07	
Magnesium (Mg)	0.01	0.053	/	
Titanium (Ti)	0.01	N.D.	/	
<b>Conclusion</b>		/	<b>Conformity</b>	/

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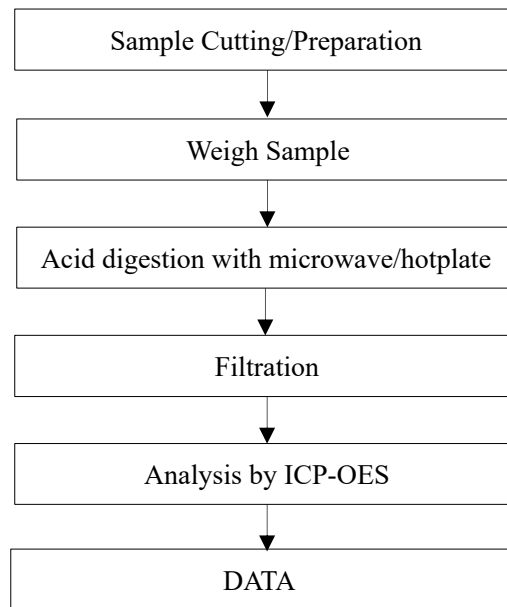
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Test Item(s)	Test condition/ Equipment	MDL	Test Result(s)	Limit
			3 <sup>rd</sup> extractives	
			1-1	
Barium (Ba)	0.5% Citric acid, 70°C, 2h ICP-OES	0.1	N.D.	1.2
Copper (Cu)		0.1	N.D.	4
Iron (Fe)		0.1	N.D.	40
Tin (Sn)		0.1	N.D.	100
Chromium (Cr)		0.01	N.D.	0.25
Manganese (Mn)		0.1	N.D.	1.8
Zinc (Zn)		0.1	N.D.	5
Aluminium (Al)		0.1	N.D.	5
Lithium (Li)		0.01	N.D.	0.048
Beryllium (Be)		0.005	N.D.	0.01
Vanadium (V)		0.005	N.D.	0.01
Nickel (Ni)		0.01	N.D.	0.14
Cobalt (Co)		0.01	N.D.	0.02
Arsenic (As)		0.002	N.D.	0.002
Molybdenum (Mo)		0.01	N.D.	0.12
Silver (Ag)		0.01	N.D.	0.08
Cadmium (Cd)		0.002	N.D.	0.005
Antimony (Sb)		0.01	N.D.	0.04
Mercury (Hg)		0.002	N.D.	0.003
Thallium (Tl)		0.0001	N.D.	0.0001
Lead (Pb)		0.01	N.D.	0.01
Magnesium (Mg)	0.01	N.D.	/	
Titanium (Ti)	0.01	N.D.	/	
<b>Conclusion</b>		/	<b>Conformity</b>	/

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### Test Flow Chart of Heavy Metal Content



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