



# TEST REPORT

Reference No	11:	WTF19F12086747C

Applicant .....: Mid Ocean Brands B.V.

Address ...... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon,

Hong Kong

Manufacturer..... 104438

Sample Name.....: Multi-function pocket knife

Model No. ....: KC2104

Test Requested.....: 1) Determination of Cadmium content in the submitted sample in accordance with REACH regulation Annex XVII Entries 23 (EC) No.

1907/2006 and the amendment No. 552/2009, No. 494/2011, No.

835/2012 and (EU) 2016/217

2) Determination of Lead content in the submitted sample in accordance with REACH regulation Annex XVII Entries 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628

3) Determination of specified Phthalates content according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006

& Amendment No. 552/2009 & No. 2018/2005

4) Nickel content requirement in Annex XVII Item 27 of the REACH Regulation (EC) No. 1907/2006 & amendment No.552/2009 (formerly known as Directive 94/27/EC and 2004/96/EC)

Test Method ......: Please refer to next page (s)

Test Conclusion .....: Please refer to next page (s)

Date of Receipt sample..... : 2019-12-12

Date of Test..... : 2019-12-12 to 2019-12-23

Date of Issue ..... : 2019-12-24

Test Result .....: Please refer to next page (s)

#### Remarks:

The results shown in this test report refer only to the sample(s) tested; this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

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#### **Test Result:**

#### 1) Cadmium (Cd)

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

Took Kom		Results (mg/kg)		
Test Item (mg/kg)	No.2			
Cadmium(Cd)	2	THE MILE WILL WIND THE		
Conclusion	1112 - 111	Pass the mile with while		

#### Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than MDL)
- (3) MDL = Method Detection Limit
- (4) Limit of Cadmium according to REACH regulation Annex XVII Item 23 (EC) No. 1907/2006 and the amendment No. 552/2009, No. 494/2011 and No. 835/2012 and (EU) 2016/217.

Category	Limit (mg/kg)
Wet paint	100
Surface coating	1000
Plastic	100
Metal parts of jewellery and hair accessories	100

# 2) Lead (Pb)

Test Method: With reference to IEC 62321-5:2013, the analysis was performed by ICP-OES.

Total House	MDL	White White	Limit		
Test Item	(mg/kg)	No.1	No.2	No.3	(mg/kg)
Lead(Pb)	2	ND	ND	ND	500
Conclusion	<b>7</b> / 7	Pass	Pass	Pass	Mr Mr.

#### Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than MDL)
- (3) MDL = Method Detection Limit
- (4) Limit of Lead was quoted from REACH regulation Annex XVII Item 63 (EC) No. 1907/2006 and the amendment No. 836/2012 and (EU) 2015/628.

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### 3) Phthalates

Test Method: With reference to EN14372:2004, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test Items	MDL	Results (%)	Limit	
	(%)	No.2	(%)	
Benzyl butyl phthalate (BBP)	0.005	ND ND	- At At A	
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND IT WILL	sum of four	
Dibutyl phthalate (DBP)	ND -	phthalates < 0.1		
Diisobutyl phthalate (DIBP)	0.005	ND	A SH SH	
Diisodecyl phthalate (DIDP)	ate (DIDP) 0.01 ND		Muri Aur Au	
Diisononyl phthalate (DINP)	sum of three phthalates < 0.1			
Di-n-octyl phthalate (DNOP)	ND	pritrialates < 0.1		
Conclusion		Pass	NI EL WITE WALTER	

#### Note:

BBP= Benzyl butyl phthalate DBP= Dibutyl phthalate DINP= Di-isononyl phthalate DNOP= Di-n-octyl phthalate DIDP= Di-isodecyl phthalate DIBP= Diisobutyl phthalate

DEHP= Bis-(2-ethylhexyl)- phthalate

- (1) % = percentage by weight
- (2) ND = Not detected or Less than the method detection limit
- (3) MDL=Method Detection Limit
- (4) "<" = less than
- (5) The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 & No. 2018/2005 (formerly known as Directive 2005/84/EC) for phthalate content in toys and child care articles.

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# 4) Nickel release

Test method: With reference BS EN1811: 2011+A1:2015, Nickel content was determined by Inductively Coupled

Argon Plasma Spectrometry

Item No.	Sample Area (cm²)	Volume of Test	TEX IN	Nickel release (μg/cm²/week)			
Area (cm )	Solution(ml)	Trial 1	Trial 2	Trial 3	Average	TEK JE	
No.1	5.22	5.+	ND O	ND	ND	ND	Pass

#### Note:

- (1)  $\mu g/cm^2/week = microgram per square centimetre per week$
- (2) Method Detection limit = 0.05 μg/cm²/week
- (3) ND = Not detected or less than the value of Method Detection Limit
- (4) Interpretation of test results:

The of course	Nickel Release(μg/cm²/week)			
Type of sample	Pass	Fail		
Other components in direct and prolonged contact with the skin	<0.88	≥0.88		
Post assemblies and body piercings (Post assemblies which are inserted into pierced parts of the human body)	<0.35	≥0.35		

# **Test Specimen Description:**

No.1: Silvery metal scissor

No.2: Off-white plastic sheet with golden coating

No.3: Silvery metal sheet

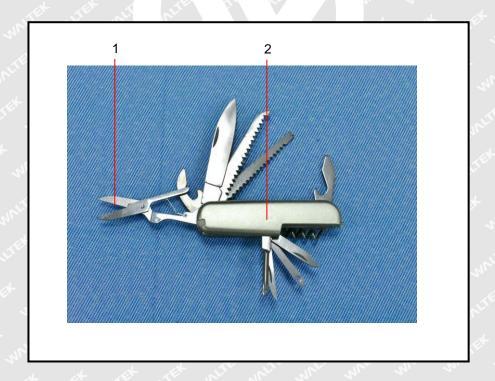
Reference No.: WTF19F12086747C

# Sample photo:

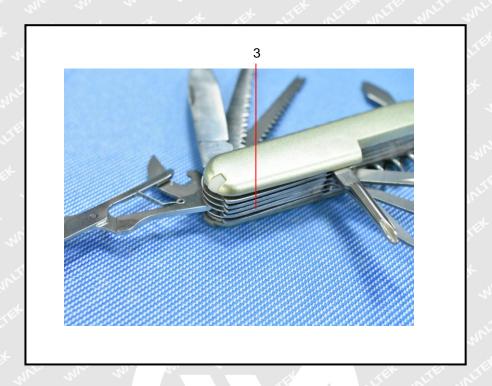




# Photographs of parts tested:







===== End of Report ======

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