

中国认可 国际互认 检测 TESTING CNAS L6478



TEST REPORT

Reference No	WTF19F11077241C
Applicant	Mid Ocean Brands B.V.
Address : Manufacturer :	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong 108917
Sample Name	Key ring with PU heart shape
Model No	MO9210
Test Requested	 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 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 Determination of specified Polycyclic Aromatic Hydrocarbons (PAHs) content in submitted sample in accordance with Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013. Determination of Benzene content in the submitted sample in accordance with Annex XVII Entries 5 of the REACH Regulation (EC) No. 1907/2006 and the Amendment (EU) No. 2015/1494 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 :	2019-11-08
Date of Test	
Date of Issue :	2019-11-21
Test Result	Please refer to next page (s)
Debreules	

Remarks:

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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.

Tool Horiz	MDL ^{ot}	Results (mg/kg)		
Test Item (mg/kg)		No.3+No.4		
Cadmium(Cd)	2	ND*		
Conclusion	- m.	Pass		

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

(5) "*" = Results are calculated by the minimum weight of mixed components.

2) Phthalates

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

Test Items	ems MDL (%)		Limit (%)	
Benzyl butyl phthalate (BBP)	0.005	ND*	- LITA NUTER MUTER	
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND*	sum of four	
Dibutyl phthalate (DBP)	0.005	ND*	phthalates < 0.1	
Diisobutyl phthalate (DIBP)	0.005	ND*	Tet Tet Nifet IN	
Diisodecyl phthalate (DIDP)	0.01	MND*M		
Diisononyl phthalate (DINP)	0.01	ND*	sum of three phthalates < 0.1	
Di-n-octyl phthalate (DNOP)	0.005	ND*		
Conclusion	at 51 5	Pass	mun mu -m	



Note:

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

DEHP= Bis-(2-ethylhexyl)- phthalate DIDP= Di-isodecyl 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.
- (6) "*" = Results are calculated by the minimum weight of mixed components.

3) Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AFPS GS 2014:01 PAK method, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS).

Test Items	Unit	Results No.3+No.4	MDL	Limit
Benzo(a)anthracene (BaA)	mg/kg	ND*	0.2	1.0
Chrysene (CHR)	mg/kg	ND*	0.2	1.0
Benzo[b]fluoranthene (BbFA)	mg/kg	ND*	0.2	. n ¹¹ 1.0 m ¹¹
Benzo[k]fluoranthene (BkFA)	mg/kg	ND*	0.2	1.0
Benzo(a)pyrene (BaP)	mg/kg	ND*	0.2	1.0
Dibenzo[a,h]anthracene (DBAhA)	mg/kg	ND*	0.2	st 1.0
Benzo[j]fluoranthene (BjFA)	mg/kg	ND*	0.2	1.0
Benzo[e]Pyrene (BeP)	mg/kg	ND*	0.2	1.0
Conclusion	AL- IN	Pass		5

Note:

- (1) ND = Not Detected or less than method detection limit
- (2) mg/kg=milligram per kilogram=ppm
- (3) MDL = Method Detection Limit
- (4) As per Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013, Articles shall not be placed on the market for supply to the general public, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, contain more than 1 mg/kg (0,0001 % by weight of this component) of any of the listed PAHs.
- (5) As per Entries 50 of Annex XVII of REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013, Toys, including activity toys, and childcare articles, shall not be placed on the market, if any of their rubber or plastic components that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use, contain more than 0,5 mg/kg (0,00005 % by weight of this component) of any of the listed PAHs.
- (6) "*" = Results are calculated by the minimum weight of mixed components.

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4) Benzene

Test Method: With reference to US EPA 3550C:2007& US EPA 8270D: 2014, analysis was performed by GC-MS

Toot Kom	MDL	Results (mg/kg)	Limit of	
Test Item	(mg/kg)	No.3+No.4	(mg/kg)	
Benzene [#]	1	ND*	5.0	
Conclusion	re white white w	Pass		

Note:

(1) mg/kg = milligram per kilogram

- (2) ND = Not Detected (lower than MDL)
- (3) MDL = Method Detection Limit
- (4) As per Annex XVII Items 5 of the REACH Regulation (EC) No. 1907/2006 and the Amendment (EU) No. 2015/1494, benzene shall not be used in toys or parts of toys where the concentration of benzene in the free state is greater than 5 mg/kg (0,0005 %) of the weight of the toy or part of toy.
- (5) The testing item marked with ", do not been accredited by CNAS
- (6) "*" = Results are calculated by the minimum weight of mixed components.

5) Nickel release

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

Item No.	Item No. Sample Area (cm ²)		t TEK		release ²/week)	ANNITEK V	Conclusion
A B	Area (cm)	Solution(ml)	Trial 1	Trial 2	Trial 3	Average	at at
No.1	10.83	15	ND	SCND S	ND	ND ND	Pass
No.2	0.78	Will I'm	ND	ND	ND		Pass

Note:

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

MITTER WALTER WALTE WALTE WALT WALT WATER WATER	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	



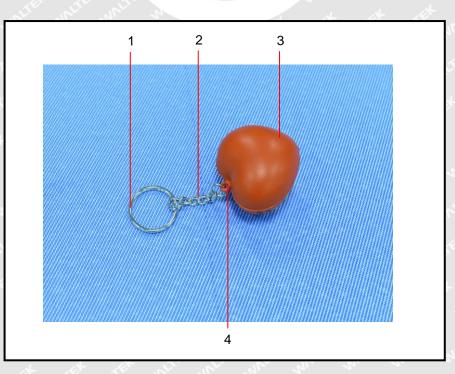
Test Specimen Description:

No.1: Silvery metal ring No.2: Silvery metal chain No.3: Red sponge No.4: Red plastic ring

Sample photo:



Photographs of parts tested:



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

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