



中国认可
国际互认
检测
TESTING
CNAS L6478



TEST REPORT

Reference No. : WTF19F09063612C
Applicant : Mid Ocean Brands B.V.
Address : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer : 114276
Sample Name : Tritan 600ml bottle
Model No. : MO9225
Test Requested : 1) 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
 2) 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
 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) Determination of Specific Migration of Bisphenol A content in the submitted sample in accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB) Section 30 & 31, BfR recommendation and Regulation (EC) No 1935/2004
Test Method : Please refer to next page (s)
Test Conclusion : Please refer to next page (s)
Date of Receipt sample : 2019-09-12
Date of Test : 2019-09-12 to 2019-09-20
Date of Issue : 2019-09-24
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) Lead (Pb)**

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

Test Item	MDL (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.1+No.2	No.3	
Lead(Pb)	2	ND*	ND	500
Conclusion	--	Pass	Pass	--

Test Item	MDL (mg/kg)	Results (mg/kg)		Limit (mg/kg)
		No.4	No.5	
Lead(Pb)	2	ND	ND	500
Conclusion	--	Pass	Pass	--

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

2) Cadmium (Cd)

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

Test Item	MDL (mg/kg)	Results (mg/kg)		
		No.3	No.4	No.5
Cadmium(Cd)	2	ND	ND	ND
Conclusion	--	Pass	Pass	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



3) Phthalates

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

Test Items	MDL (%)	Results (%)			Limit (%)
		No.3	No.4	No.5	
Benzyl butyl phthalate (BBP)	0.005	ND	ND	ND	sum of four phthalates < 0.1
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND	ND	ND	
Dibutyl phthalate (DBP)	0.005	ND	ND	ND	
Diisobutyl phthalate (DIBP)	0.005	ND	ND	ND	
Diisodecyl phthalate (DIDP)	0.01	ND	ND	ND	sum of three phthalates < 0.1
Diisononyl phthalate (DINP)	0.01	ND	ND	ND	
Di-n-octyl phthalate (DNOP)	0.005	ND	ND	ND	
Conclusion	--	Pass	Pass	Pass	--

Note:

DBP= Dibutyl phthalate

BBP= Benzyl butyl phthalate

DEHP= Bis-(2-ethylhexyl)- phthalate

DINP= Di-isononyl phthalate

DNOP= Di-n-octyl phthalate

DIDP= Di-isodecyl phthalate

DIBP= Diisobutyl 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.



4) Specific Migration of Bisphenol A

Test Method: With reference to CEN/TS 13130-13-2005, sample preparation in 3% acetic acid at 100°C for 6 hours, analysis was performed by HPLC.

Test Item	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
	No.3	No.4	No.5		
Migration of Bisphenol A	ND	ND	ND	0.01	0.05
Conclusion	Pass	Pass	Pass	--	--

Note:

- (1) mg/kg = milligram per kilogram of foodstuff in contact with
- (2) MDL= Method Detection Limit
- (3) ND = Not Detected, less than MDL
- (4) The specification was quoted from regulation (EU) No 10/2011.
- (5) The ratio of volume to surface area was: 0.0016L/0.01dm².

Test Specimen Description:

- No.1: Silvery metal lid
- No.2: Silvery metal base
- No.3: Transparent blue plastic bottle
- No.4: Black plastic lid
- No.5: Semi-transparent soft plastic ring



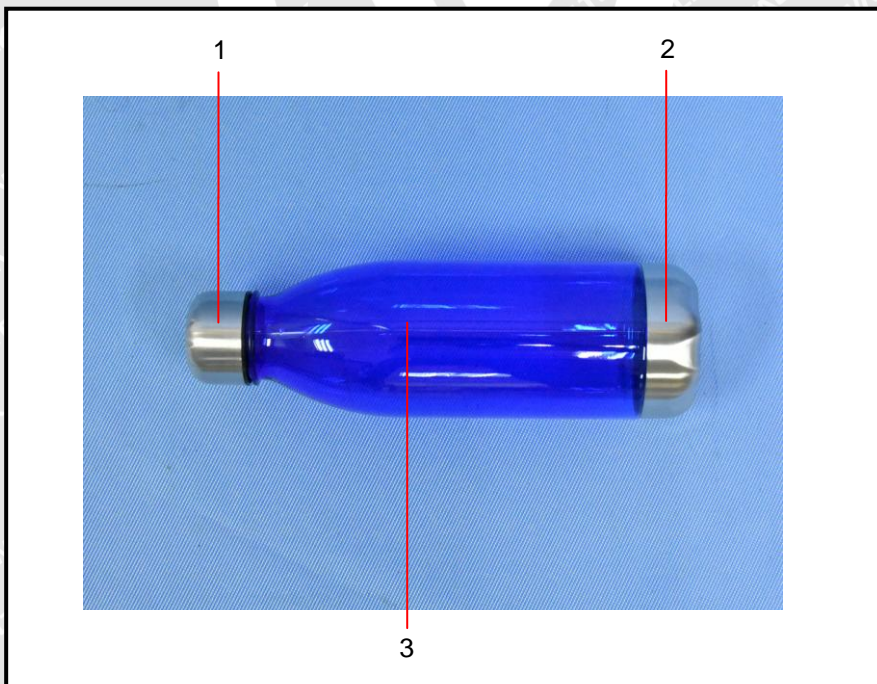
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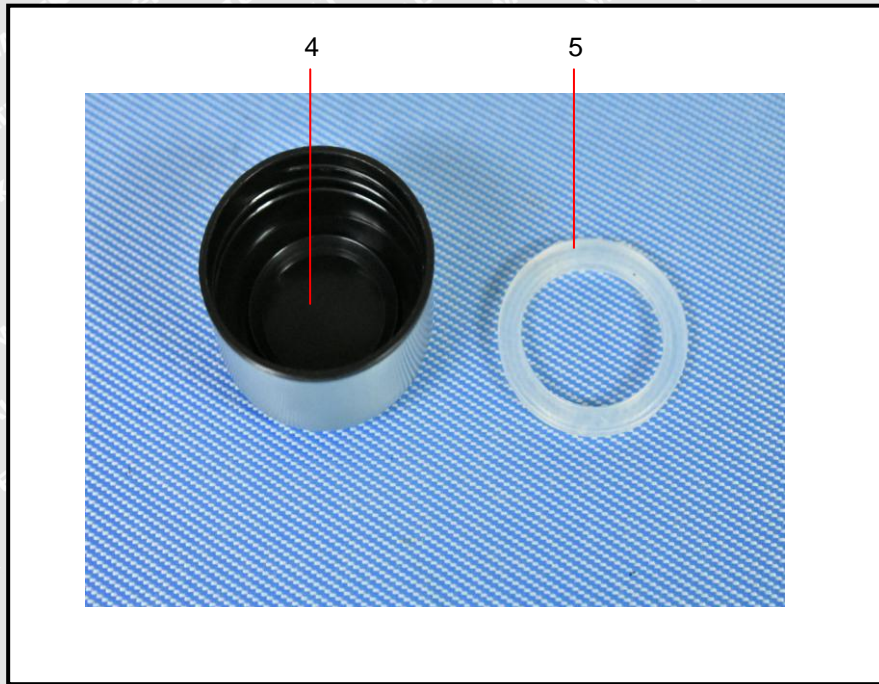


Sample photo:



Photographs of parts tested:





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