



# TEST REPORT

Reference No	2/1/2	WTF19F08055529R1X40
Applicant		Mid Ocean Brands B.V.

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

Hong Kong

 Manufacturer......
 116209

 Sample Name......
 Reflective

Model No. .....: ML4001, ML4101, MK2019, MK2023, MK2025, MT1005, ML4002,

ML4102, MK2020, MK2024, MK2026, MK2028, MT1006, MK2021,

MK2022, MK2027, MO9885

**Test Requested**.....: 1) Determine the specified AZO Colorants contents in the submitted sample in according to the Entries 43 in Annex XVII of the REACH

Regulation (EC) No.1907/2006 and the Amendment Regulation (EC) No.552/ 2009 & No.126/ 2013 (previously restricted under

Directive 2002/61/EC).

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 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

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

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

Date of Receipt sample..... : 2019-08-11

Date of Issue .....: 2020-08-10

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

Note ...... : (1) As per client's requirement, the results of specimen from No.1 to

No.6 were quoted from Report No. WTF19F08055529X1C.

(2) This report is based on Waltek test report

WTF19F08055529R1X3C for revising, and replaced report

WTF19F08055529R1X3C.

#### 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.

If the report is not stamped with the accreditation recognized seal, it will only be used for scientific research, education, and internal quality control activities, and is not used for the purpose of issuing supporting data to the society.

# Prepared By:

Waltek Services (Foshan) Co., Ltd.

Address: No.13-19, 2/F., 2nd Building, Sunlink International Machinery City, Chencun, Shunde District, Foshan, Guangdong, China

Tel:+86-757-23811398 Fax:+86-757-23811381 E-mail:info@waltek.com.cn

Compiled by: Approved by:

Rena.Chen /Project Engineer

Waltek Services (Foshan) Co.,Ltd. http://www.waltek.com.cn

Page 1 of 7

Swing, Liang / Technical Manager

\* WALTEL

Reference No.: WTF19F08055529R1X4C



#### **Test Result:**

1) AZO

Test Method: With reference to BS EN ISO 14362-1: 2017 and BS EN ISO 14362-3: 2017, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS)

No.	Amines Substances	CAS No.	Limit	Result (mg/kg)	
NO.	The sail of the sail of		(mg/kg)	No.2	No.5
150	4-Aminobiphenyl	92-67-1	30	W ND	ND
2	Benzidine	92-87-5	30	ND	ND
3	4-chloro-o-Toluidine	95-69-2	30	ND	ND
4	2-Naphthylamine	91-59-8	30	ND +	ND
5	o-Aminoazotoluene	97-56-3	30	ND	ND
6	2-Amino-4-nitrotoluene	99-55-8	30	ND	ND
7	p-Chloroaniline	106-47-8	30	MND M	ND
8	2,4-diaminoanisol	615-05-4	30	ND	ND
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND ND	ND
10	3,3'-Dichlorobenzidine	91-94-1	30	ND O	ND
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND	ND
12	3,3'-Dimethylbenzidine	119-93-7	30	ND -	ND
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND V	ND
14	p-cresinin	120-71-8	30	ND	ND ND
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	WND W	ND
16	4,4'-Oxydianiline	101-80-4	30	ND	ND
17	4,4'-Thiodianiline	139-65-1	30	ND	ND
18	o-Toluidine	95-53-4	30	ND OF	ND
19	2,4-Toluylendiamine	95-80-7	30	ND	ND
20	2,4,5 – Trimethylaniline	137-17-7	30	ND	ND
21	o-anisidine	90-04-0	30	ND w	ND
22	4-aminoazobenzene	60-09-3	30	ND	ND
23	2,4-Xylidin	95-68-1	30	u ND	ND
24	2,6-Xylidin	87-62-7	30	ND A	ND
2/1	Conclusion	JET - JE	1000	Pass	Pass

#### Note:

- ND = Not detected or less than the method detection limit
- mg/kg=Milligram per kilogram
- Method Detection Limit (mg/kg): Each 5mg/kg
- The CAS-numbers 97-56-3 and 99-55-8 are further reduced to CAS-numbers 95-53-4 and 95-80-7.
- AZO colorants that are able to form 4-aminoazobenzene, generate under the condition of this method aniline and 1,4-phenylenediamine. The presence of these colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorant used.
- The CAS-numbers 95-68-1 and 87-62-7 are not proscribed under REACH Regulation (EC) No 1907/2006



### 2) Lead (Pb)

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

Toot Itom	MDL	LET LET	Results (mg/kg)	Wer Mus	Limit (mg/kg)
Test Item	(mg/kg)	No.1	No.2	No.3	
Lead(Pb)	2	ND	ND ND	ND	500
Conclusion	elier delle di	Pass	Pass	Pass	et zet

Toot Itom	MDL	N. INC.	Results	ilts (mg/kg)		Limit
Test Item	(mg/kg)	No.4	No.5	No.6	No.7	(mg/kg)
Lead(Pb)	2 2	ND	ND	ND V	ND	500
Conclusion	MrM	Pass	Pass	Pass	Pass	INLIE JALIE

#### 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.

# 3) Cadmium (Cd)

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

Tool Hom	MDL	Results (mg/kg)			
Test Item	(mg/kg)	No.1	No.6	No.7	
Cadmium(Cd)	2	ND	ND	ND ND	
Conclusion	TEL TE	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 W W	100
Metal parts of jewellery and hair accessories	100

#### **Test Specimen Description:**

No.1: Transparent plastic sheet

No.2: Black flocking with black AGR

No.3: Silvery metal ring

No.4: Silvery metal eyelet

No.5: Yellow fabric with black-grey printing

No.6: Pink transparent plastic sheet

No.7: Luminous yellow plastic sheet with black printing

Waltek Services (Foshan) Co.,Ltd.

http://www.waltek.com.cn

# Page 4 of 7

# Sample photo:





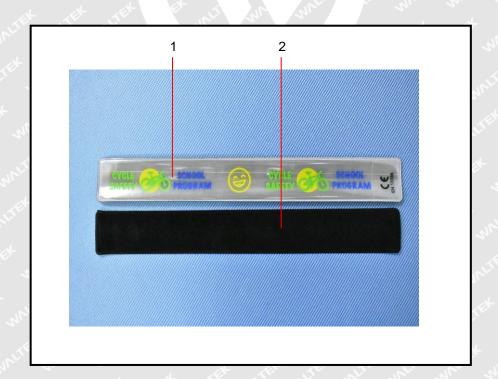




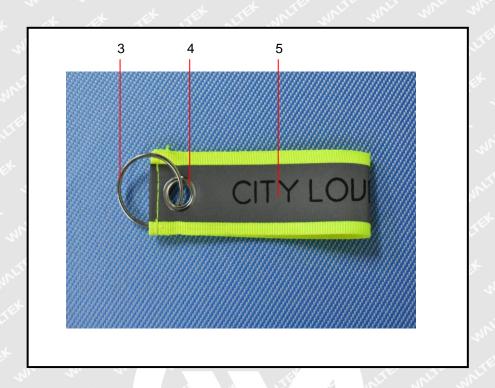




# Photographs of parts tested:





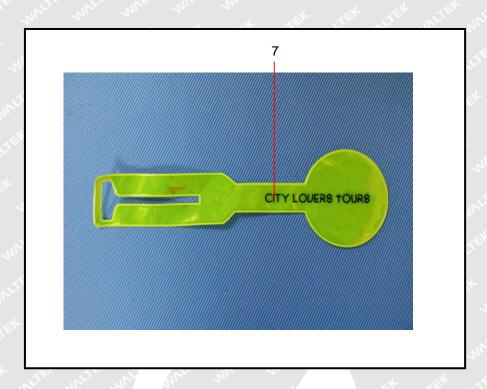




Reference No.: WTF19F08055529R1X4C

Page 7 of 7





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

# The state of the s