

中国认可 国际互认 检测 TESTING CNAS L6478



TEST REPORT

| Reference No. | | WTF17F1298698C |
|------------------------|--------------------|---|
| Applicant | and a | Mid Ocean Brands B.V. |
| Address | | Unit 201 2/F., Laford Centre, 838 Lai Chi Kok Road, Cheung Sha Wan, Kowloon, Hong Kong. 114966 |
| Sample Name | | Key Chain |
| Model No. | | MK 2012, MK 2003, MK 2004, MK 4005, MK 2001, MK2002, MK2005, MK2006, MK2007, MK2008, MK2009, MK2010, MK2011, MK4001~MK4004, MK3001, MK3002 |
| Test Method | ster st suni | 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). 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 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 Please refer to next page (s) |
| | | s solver the start start start start |
| Test Conclusion | Ļ | Please refer to next page (s) |
| Date of Receipt sample | 10 | 2017-12-20 |
| Date of Test | : | 2017-12-20 to 2017-12-23 |
| Date of Issue | 14 | 2017-12-27 |
| 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 reporter and reviewer.

Prepared By:

Waltek Services (Foshan) Co., Ltd. Address: No. 13-19, 2/F, 2nd Building, Sunlink International Machinery City,Chencun Town, Shunde District, Foshan, Guangdong, China

Tel: +86-757-23811398 Fax: +86-757-23811381

Compiled by:

Swing.Liang /Project Engineer

Dino.Zhang /Lab Manager



Test Result:

1) AZO

Test Method: With reference to BS EN 14362-1: 2012 and BS EN 14362-3: 2012, analysis was performed by Gas Chromatographic Mass Spectrometry (GC-MS)

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

| Test Item | MDL | Results | Limit | |
|------------|----------|---------|-------|-----------|
| | (mg/kg) | No.1 | No.4 | (mg/kg) |
| Lead(Pb) | 2 | ND | ND | 500 |
| Conclusion | 1 - at a | Pass | Pass | her in in |

| Test Item | MDL | Results | Limit | |
|------------|---------|---------|-------|-----------|
| | (mg/kg) | No.5- | No.6 | (mg/kg) |
| Lead(Pb) | 2 | NND W | ND | 500 |
| Conclusion | | Pass V | Pass | Mr. Mr. M |

| Test Item | MDL S | Results (I | Limit 🖉 | |
|------------|---------|------------|---------|---------------|
| | (mg/kg) | No.7 | No.8 | (mg/kg) |
| Lead(Pb) | 2 | ND | ND | 500 |
| Conclusion | 14 22 | Pass | Pass | white white a |

| Test Item | A MOL | Results (mg/kg) | | | Limit |
|------------|---------|-----------------|-------|-------|-----------------|
| | (mg/kg) | No.9 | No.10 | No.11 | (mg/kg) |
| Lead(Pb) | 2 50 | ND | ND | ND | 500 |
| Conclusion | 24 - 24 | Pass | Pass | Pass | The work - work |

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.

| tet water atter mile | MDL VICT V | Results (mg/kg) | | |
|----------------------|----------------|-----------------|-------|--|
| Test Item | (mg/kg) | No.6 | No.12 | |
| Cadmium(Cd) | 2 | ND | - ND | |
| Conclusion | at at - att at | 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 |

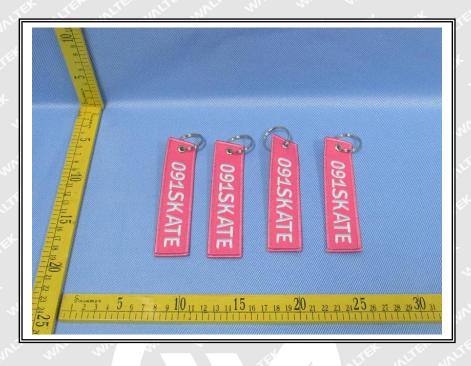
Test Specimen Description:

No.1: Silvery metal ring

- No.2: Pink sewing thread
- No.3: Pink fabric
- No.4: Silvery metal rivet
- No.5: Silvery metal brand with multicolour printing
- No.6: Multicolour plastic brand
- No.7: Golden metal brand with multicolour printing
- No.8: Silvery metal brand with multicolour printing
- No.9: Golden metal brand
- No.10: Silvery metal brand
- No.11: Silvery metal brand with multicolour printing
- No.12: Transparent soft plastic sheet



Sample photo:







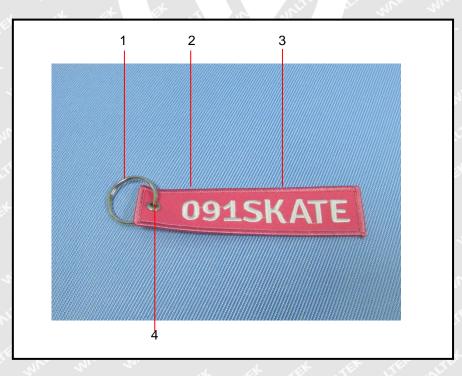








Photographs of parts tested:







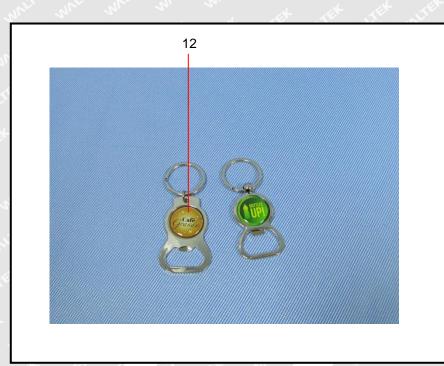
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