



TEST REPORT

Report No. : WTF22F11220205C
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 : BBQ apron with BBQ tools
Sample Model : KC6388
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) 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).
5) As specified by client, determination of the released formaldehyde content in submitted sample
6) As requested by the applicant, to test Colour Fastness to Rubbing in the submitted sample.

Test Conclusion : Refer to next page (s)
Date of Receipt sample : 2022-11-03
Testing period : 2022-11-03 to 2022-11-10
Date of Issue : 2022-11-11
Test Result : Refer to next page (s)
Note : As specified by client, only test the designated sample.

Prepared By:

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Signed for and on behalf of
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Report No.: WTF22F11220205C

Sample photo:



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Report No.: WTF22F11220205C

Test Results:

1) Lead (Pb)

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

| Test Item | LOQ (mg/kg) | Results (mg/kg) | | | | | Limit (mg/kg) |
|-------------------|-------------|-----------------|-------------|-------------|-------------|-------------|---------------|
| | | No.1 | No.2 | No.3 | No.4 | No.5 | |
| Lead(Pb) | 2 | ND | ND | ND | ND | ND | 500 |
| Conclusion | -- | Pass | Pass | Pass | Pass | Pass | -- |

| Test Item | LOQ (mg/kg) | Results (mg/kg) | | | | Limit (mg/kg) |
|-------------------|-------------|-----------------|-------------|-------------|-------------|---------------|
| | | No.6+No.7 | No.8 | No.9 | No.10 | |
| Lead(Pb) | 2 | ND* | ND | ND | ND | 500 |
| Conclusion | -- | Pass | Pass | Pass | Pass | -- |

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (3) LOQ = Limit of quantitation
- (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.



Report No.: WTF22F11220205C

2) Cadmium (Cd)

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

| Test Item | LOQ (mg/kg) | Results (mg/kg) | | | |
|-------------------|----------------|-----------------|-------------|-------------|-------------|
| | | No.1 | No.2 | No.3 | No.4 |
| Cadmium(Cd) | 2 | ND | ND | ND | ND |
| Conclusion | -- | Pass | Pass | Pass | Pass |

| Test Item | LOQ (mg/kg) | Results (mg/kg) | | | |
|-------------------|----------------|-----------------|-------------|-------------|-------------|
| | | No.5 | No.6+No.7 | No.9 | No.10 |
| Cadmium(Cd) | 2 | ND | ND* | ND | ND |
| Conclusion | -- | Pass | Pass | Pass | Pass |

Note:

- (1) mg/kg = milligram per kilogram
- (2) ND = Not Detected (lower than LOQ)
- (3) LOQ = Limit of quantitation
- (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.



Report No.: WTF22F11220205C

3) Phthalates

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

| Test Items | LOQ (%) | Results (%) | | Limit (%) |
|--------------------------------------|---------|-------------|-------------|-------------------------------|
| | | No.4 | No.10 | |
| Benzyl butyl phthalate (BBP) | 0.005 | ND | ND | sum of four phthalates < 0.1 |
| Di (2-ethyl hexyl)- phthalate (DEHP) | 0.005 | ND | ND | |
| Dibutyl phthalate (DBP) | 0.005 | ND | ND | |
| Diisobutyl phthalate (DIBP) | 0.005 | ND | ND | |
| Diisodecyl phthalate (DIDP) | 0.01 | ND | ND | sum of three phthalates < 0.1 |
| Diisononyl phthalate (DINP) | 0.01 | ND | ND | |
| Di-n-octyl phthalate (DNOP) | 0.005 | ND | ND | |
| Conclusion | -- | 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 lower than limit of quantitation

(3) LOQ = Limit of quantitation

(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.



Report No.: WTF22F11220205C

4) 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 (mg/kg) | Result (mg/kg) | |
|-------------------|---|----------|---------------|----------------|-------------|
| | | | | No.1 | No.3 |
| 1 | 4-Aminobiphenyl | 92-67-1 | 30 | 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 | ND | ND |
| 8 | 2,4-diaminoanisol | 615-05-4 | 30 | ND | ND |
| 9 | 4,4'-Diaminodiphenylmethane | 101-77-9 | 30 | ND | ND |
| 10 | 3,3'-Dichlorobenzidine | 91-94-1 | 30 | ND | 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 | ND |
| 14 | p-cresinin | 120-71-8 | 30 | ND | ND |
| 15 | 4,4'-Methylen-bis-(2-chloroaniline) | 101-14-4 | 30 | ND | 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 | 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 | 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 |
| Conclusion | | -- | -- | Pass | Pass |



Report No.: WTF22F11220205C

| No. | Amines Substances | CAS No. | Limit (mg/kg) | Result (mg/kg) | |
|-------------------|---|----------|---------------|----------------|-------------|
| | | | | No.5 | No.10 |
| 1 | 4-Aminobiphenyl | 92-67-1 | 30 | 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 | ND | ND |
| 8 | 2,4-diaminoanisol | 615-05-4 | 30 | ND | ND |
| 9 | 4,4'-Diaminodiphenylmethane | 101-77-9 | 30 | ND | ND |
| 10 | 3,3'-Dichlorobenzidine | 91-94-1 | 30 | ND | 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 | ND |
| 14 | p-cresinin | 120-71-8 | 30 | ND | ND |
| 15 | 4,4'-Methylen-bis-(2-chloroaniline) | 101-14-4 | 30 | ND | 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 | ND |
| 19 | 2,4-Toluyldiamine | 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 | 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 |
| Conclusion | | -- | -- | Pass | Pass |

Note:

- ND = Not Detected or lower than limit of quantitation
- mg/kg=Milligram per kilogram
- Limit of quantitation (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



Report No.: WTF22F11220205C

5) Formaldehyde

Test Method: With reference to EN717-3:1996, analysis was performed by UV-VIS

| Test Item | Unit | Result | LOQ | Client's Limit |
|----------------------------------|-------|-------------|-----|----------------|
| | | No.9 | | |
| Formaldehyde (CH ₂ O) | mg/kg | ND | 10 | 80 |
| Conclusion | -- | Pass | -- | -- |

Note:

- ND = Not Detected or lower than limit of quantitation
- mg/kg =milligram per kilogram=ppm
- LOQ = Limit of quantitation

6) Colour Fastness to Rubbing

| Colour Fastness to Rubbing | | | | | | |
|---|--------------|-------------|-------------|-------------|-------------|----------------|
| (ISO 105-X12: 2016; Size of rubbing finger: 16mm diameter.) | | | | | | |
| | | No.1 | No.3 | No.5 | No.10 | Client's Limit |
| Length | Dry staining | 4-5 | 4-5 | 4-5 | 4-5 | 2-3 |
| | Wet staining | 4-5 | 4-5 | 4 | 4-5 | 2-3 |
| Width | Dry staining | 4-5 | -- | 4-5 | -- | 2-3 |
| | Wet staining | 4-5 | -- | 4 | -- | 2-3 |
| Conclusion | | Pass | Pass | Pass | Pass | -- |

Note:

(1) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.



Report No.: WTF22F11220205C

Description for Specimen:

| Specimen No. | Specimen Description |
|--------------|----------------------------------|
| 1 | Black main fabric |
| 2 | Black fabric rim |
| 3 | Black webbing |
| 4 | Black plastic buckle |
| 5 | Red main fabric |
| 6 | Black plastic hook(VELCRO) |
| 7 | Black plastic loop(VELCRO) |
| 8 | Golden metal rivet |
| 9 | Brown wood handle |
| 10 | Dark grey synthetic leather wire |

Photograph of parts tested:





Report No.: WTF22F11220205C

Remarks:

1. The results shown in this test report refer only to the sample(s) tested;
2. This test report cannot be reproduced, except in full, without prior written permission of the company;
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===== End of Report =====

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