

TEST REPORT

Reference No.:: WTF21F12147221A1C Applicant: Mid Ocean Brands B.V.

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

Hong Kong

Manufacturer..... 106613

Sample Name.....: Set of 7 garden tools with apron

Model No.: : MO6548

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 Method: Please refer to next page (s) Test Conclusion:: Please refer to next page (s) Date of Receipt sample..... 2021-12-23 & 2022-01-19 Date of Test..... 2021-12-23 to 2022-01-24

Date of Issue: 2022-01-25

Test Result: Please refer to next page (s)

Note: As specified by client, only test the designated sample.

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.

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Test Result:



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

Test Item	LOQ	THE THE THE	Limit		
	(mg/kg)	No.1+No.2+No.3	No.4	No.5	(mg/kg)
Lead(Pb)	2	ND*	ND SI	ND W	500
Conclusion	we - w	Pass	Pass	Pass	Life" - nii

Test Item	LOQ	At All St	Results (mg/kg)	mr. mr. m	Limit
	(mg/kg)	No.6+No.7	No.8	No.9+No.10 +No.15	(mg/kg)
Lead(Pb)	2	ND*	ND	ND*	500
Conclusion		Pass	Pass	Pass	m - 211

Test Item	LOQ	Results (mg/kg)					
	(mg/kg)	No.11	No.12+No.13	No.14	(mg/kg)		
Lead(Pb)	2	ND N	ND*	ND	500		
Conclusion	7,-	Pass	Pass	Pass	1/1/2 - 1		

Test Item	LOQ	Results (m	g/kg)	Limit
	(mg/kg)	No.16+No.17+No.18	No.19	(mg/kg)
Lead(Pb)	2	ND*	ND	500
Conclusion		Pass	Pass	11/2

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.
- (6) The test sample of specimen No.5 is received on the date of 2021-12-23.





Reference No.: WTF21F12147221A1C



2) Cadmium (Cd)

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

Took kom alt	LOQ	A NITER WALLE WALL	Results (mg/kg)	in it it
Test Item	(mg/kg)	No.1+No.2+No.3	No.4	No.5
Cadmium(Cd)	30 2 30 T	ND*	ND	ND
Conclusion	1 1	Pass	Pass	Pass

Took kom	LOQ			
Test Item	(mg/kg)	No.6+No.7	No.8	No.11
Cadmium(Cd)	2 2	ND*	ND	ND +
Conclusion		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.
- (6) The test sample of specimen No.5 is received on the date of 2021-12-23.



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.5	No.11	(%)
Benzyl butyl phthalate (BBP)	0.005	ND	ND	ND	s at at
Di (2-ethyl hexyl)- phthalate (DEHP)	0.005	ND +	ND	ND 0	sum of four
Dibutyl phthalate (DBP)	0.005	ND	0.073	ND	phthalates < 0.1
Diisobutyl phthalate (DIBP)	0.005	ND N	0.011	ND	The Tab
Diisodecyl phthalate (DIDP)	0.01	ND	ND	ND	Milly Mer M
Diisononyl phthalate (DINP)	0.01	ND	ND	ND	sum of three phthalates < 0.1
Di-n-octyl phthalate (DNOP)	0.005	ND	ND ND	ND	primalates < 0.1
Conclusion	mr m	Pass	Pass	Pass	TEN MITE MITTER

Note:

DBP= Dibutyl phthalate
DINP= Di-isononyl 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.
- (6) The test sample of specimen No.5 is received on the date of 2022-01-19.





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.	Allilles Substances	CAS NO.	(mg/kg)	No.1	No.2+No.3	
1.	4-Aminobiphenyl	92-67-1	30	ND	ND*	
2	Benzidine	92-87-5	30	ND N	ND*	
ે3	4-chloro-o-Toluidine	95-69-2	30	ND	ND*	
4	2-Naphthylamine	91-59-8	30	ND ND	ND*	
5	o-Aminoazotoluene	97-56-3	30	ND A	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	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*	
(1	Conclusion	J . ,	# - 18th	Pass	Pass	



No.	Amines Substances	CAS No.	Limit	Result (mg/kg)
NO.	Ammes Substances	CAS NO.	(mg/kg)	No.6+No.7
1.5	4-Aminobiphenyl	92-67-1	30	ND*
2	Benzidine	92-87-5	30	ND*
3	4-chloro-o-Toluidine	95-69-2	30	ND*
4	2-Naphthylamine	91-59-8	30	ND*
5	o-Aminoazotoluene	97-56-3	30	ND*
6	2-Amino-4-nitrotoluene	99-55-8	30	ND*
7,0	p-Chloroaniline	106-47-8	30	ND*
8	2,4-diaminoanisol	615-05-4	30	ND*
9	4,4'-Diaminodiphenylmethane	101-77-9	30	ND*
10	3,3'-Dichlorobenzidine	91-94-1	30	ND*
11	3,3'-Dimethoxybenzidine	119-90-4	30	ND*
12	3,3'-Dimethylbenzidine	119-93-7	30	ND*
13	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	30	ND*
14	p-cresinin	120-71-8	30	ND*
15	4,4'-Methylen-bis-(2-chloroaniline)	101-14-4	30	ND*
16	4,4'-Oxydianiline	101-80-4	30	ND*
17	4,4'-Thiodianiline	139-65-1	30	ND*
18	o-Toluidine	95-53-4	30	ND*
19	2,4-Toluylendiamine	95-80-7	30	ND*
20	2,4,5 – Trimethylaniline	137-17-7	30	ND*
21	o-anisidine	90-04-0	30	ND*
22	4-aminoazobenzene	60-09-3	30	ND*
23	2,4-Xylidin	95-68-1	30	ND*
24	2,6-Xylidin	87-62-7	30	ND*
Υ .	Conclusion	- JE	Lite - Mile	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
- "*" = Results are calculated by the minimum weight of mixed components.

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5) Formaldehyde

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

	TEN THE	Result	70.	Client's
Test Item	Unit	No.19	LOQ	Limit
Formaldehyde (CH ₂ O)	mg/kg	MALL ND TO MA	10	80
Conclusion		Pass	NIE MILIE	111/12 - 111

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 Fastne	ess to Rubbing	Site Will W	L. 24. 25.		e st st
(ISO 105-X12:	2016; Size of rubbir	ng finger: 16mm dian	neter.)	I'M JER JIE	CLIE WILL
	e de de	No.1+No.2	No.3	No.6+No.7	Client's Limit
Longth	Dry staining	4-5*	4-5	4-5*	2-3
Length	Wet staining	4-5*	4-5	4-5*	2-3
707: -141-	Dry staining	4-5*	24 24.	4-5*	2-3
Width	Wet staining	4-5*	18t 18th	4-5*	2-3
Conclusion	A 16	Pass	Pass	Pass	- I

Note:

- (1) Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.
- (2) "*" = As per applicant's requirement, the testing was conducted based on mixed components.

Test Specimen Description:

- No.1: Green main fabric
- No.2: Beige fabric edge
- No.3: Beige fabric band
- No.4: Black plastic buckle
- No.5: Black plastic dot
- No.6: Beige fabric
- No.7: Beige fabric
- No.8: Silvery metal scissor with black coating
- No.9: Silvery metal nut
- No.10: Silvery metal buckle
- No.11: Black plastic handle
- No.12: Silvery metal rivet
- No.13: Silvery metal buckle
- No.14: Silvery metal spring
- No.15: Silvery metal rivet
- No.16: Silvery metal blade
- No.17: Silvery metal ring
- No.18: Silvery metal fork
- No.19: Brown-yellow wooden handle
- Waltek Testing Group (Foshan) Co., Ltd.
- http://www.waltek.com.cn

Reference No.: WTF21F12147221A1C

Sample photo:



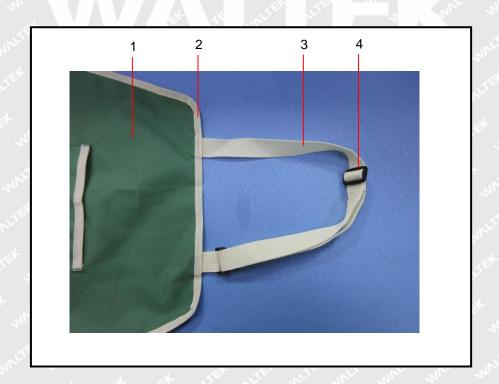






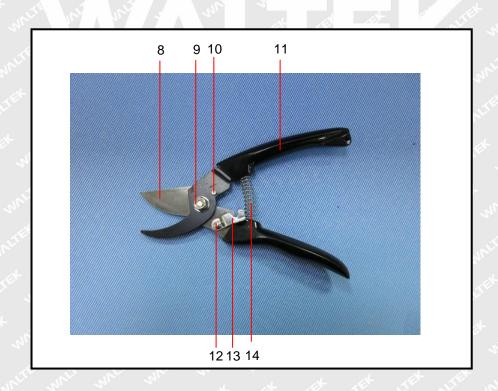


Photographs of parts tested:



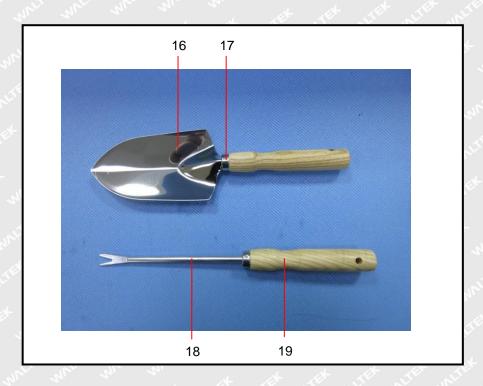












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