



# TEST REPORT

Test Report # 19A-005021-2 Date of Report Issue: August 26, 2019  
 Date of Sample Received: August 20, 2019 Pages: Page 1 of 13

## CLIENT INFORMATION:

Company: Mid Ocean Brands B.V.  
 Address: 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong



## SAMPLE INFORMATION:

Product Name: Gardon shovel with bottle opener and rope  
 Style No.: - Labeled Age Grade: -  
 Order No.(PO No.): - Client Request Age Grade: -  
 Country of Origin: - Recommended Age Grade: -  
 Country of Distribution: Europe Tested Age Grade: -  
 Model No.: MO9811  
 Composition/Main Material: stainless steel, wood, polyester  
 Buyer Name: Mid Ocean Brands B.V.  
 Supplier Name: 100396  
 Testing Period: 08/20/2019-08/26/2019

## OVERALL RESULT:



Please refer to the following pages for test result summary and appropriate notes.

HANGZHOU ASIAINSPECTION TESTING TECHNOLOGY CO., LTD

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The test result(s) and conclusion(s) in this report relate to the sample(s) tested as described herein.  
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# TEST REPORT

Test Report # 19A-005021-2 Date of Report Issue: August 26, 2019  
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## TEST RESULTS SUMMARY:

At the request of the client, the following tests were conducted:

CONCLUSION	TEST(S) CONDUCTED
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Paints and Surface Coatings
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Paints and Surface Coatings
PASS	Client's Requirement, Formaldehyde Release in resin-bonded wood
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 22 Pentachlorophenol
Refer to Detailed Results	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants – 4-Aminoazobenzene in Textiles
PASS	Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)

Remark: Test results are transferred from test report no. 19A-005021-1 date: 08/26/2019



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**DETAILED RESULTS:**

**Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Paints and Surface Coatings**

Test Method: CPSC-CH-E1003-09.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	---	---	---	---	<b>500</b>
<b>Conclusion</b>	PASS	---	---	---	---	

*Note:*

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)





**DETAILED RESULTS:**

**Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 63 Lead in Substrate Materials**

Test Method: CPSC-CH-E1001-08.3 (Metal) and/or CPSC-CH-E1002-08.3 (Non-Metal)  
Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	3	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Lead (Pb)	ND	---	---	---	---	<b>500</b>
<b>Conclusion</b>	PASS	---	---	---	---	

*Note:*  
mg/kg = Milligrams per kilogram  
LT = Less than  
ND = Not detected (Reporting Limit = 15 mg/kg)





**DETAILED RESULTS:**

**Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 23 Cadmium in Paints and Surface Coatings**

Test Method: ASTM F963-17 Clause 8.3.1

Analytical Method: Inductively Coupled Plasma-Optical Emission Spectrometry

Specimen No.	1	---	---	---	---	Limit (mg/kg)
Test Item	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Total Cadmium (Cd)	ND	---	---	---	---	<b>100</b>
<b>Conclusion</b>	PASS	---	---	---	---	

*Note:*

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 15 mg/kg)





**DETAILED RESULTS:**

**Client's Requirement, Formaldehyde Release in resin-bonded wood**

Test Method: EN 717-3:1996  
Analytical Method: Ultraviolet-Visible Spectrophotometry

Specimen No.	2	---	---	---	Client's limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)
Formaldehyde	50-00-0	ND	---	---	80
<b>Conclusion</b>	PASS	---	---	---	

*Note:*  
mg/kg = Milligrams per kilogram  
NA = Not applicable  
LT = Less than  
ND = Not detected (Reporting Limit = 16 mg/kg)





**DETAILED RESULTS:**

**Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 22 Pentachlorophenol**

Test Method: CEN/TR 14823:2003  
Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.	2	---	---	---	Limit (mg/kg)
Test Item CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Pentachlorophenol (PCP) 87-86-5	ND	---	---	---	1000
<b>Conclusion</b>	PASS	---	---	---	

*Note:*  
mg/kg = Milligrams per kilogram  
LT = Less than  
ND = Not detected (Reporting Limit = 1 mg/kg)



**DETAILED RESULTS:****Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants in Textiles**

Test Method: EN 14362-1:2012

Analytical Method: Gas Chromatography with Mass Spectrometry/ Liquid Chromatography-Mass Spectrometer (LC-MS)

Specimen No.	4	---	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)
4-aminobiphenyl	92-67-1	ND	---	---	30
Benzidine	92-87-5	ND	---	---	30
4-chloro-o-toluidine	95-69-2	ND	---	---	30
2-naphthylamine	91-59-8	ND	---	---	30
2-Amino-4-Nitrotoluene	97-56-3	ND	---	---	30
5-nitro-o-toluidine	99-55-8	ND	---	---	30
4-chloroaniline	106-47-8	ND	---	---	30
4 methoxy-m - phenylenediamine	615-05-4	ND	---	---	30
4,4'-diaminodiphenyl methane	101-77-9	ND	---	---	30
3,3'-dichlorobenzidine	91-94-1	ND	---	---	30
3,3'-dimethoxybenzidine	119-90-4	ND	---	---	30
3,3'-dimethylbenzidine	119-93-7	ND	---	---	30
3,3'-dimethyl-4,4'-diaminodiphenyl methane	838-88-0	ND	---	---	30
p-cresidine	120-71-8	ND	---	---	30
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	ND	---	---	30
4,4'-oxydianiline	101-80-4	ND	---	---	30
4,4'-thiodianiline	139-65-1	ND	---	---	30
o-toluidine	95-53-4	ND	---	---	30
2,4-toluylenediamine	95-80-7	ND	---	---	30
2,4,5-trimethylaniline	137-17-7	ND	---	---	30
2-methoxyaniline	90-04-0	ND	---	---	30
4-aminoazobenzene	60-09-3	Detected*	---	---	30
<b>Conclusion</b>	Refer to PAAB Results	---	---	---	



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*Note:*

mg/kg = Milligrams per kilogram

LT = Less than

ND = Not detected (Reporting Limit = 5 mg/kg)

*Remark:*

In the case of levels per amine component less than or equal to 30 mg/kg, according to the analysis as carried out, azo colorants which can release one or more of certain listed amines by cleavage of their azo group/s were not detected in the commodity submitted.

\*The presence of 4-aminoazobenzene (PAAB) releasing colorants was detected, therefore, EN 14362-3 was conducted for confirmation.





**DETAILED RESULTS:**

**Regulation (EC) No. 1907/2006 REACH Annex XVII, Item 43 Azocolorants – 4-Aminoazobenzene in Textiles**

Test Method: EN 14362-3:2012  
 Analytical Method: Gas Chromatography with Mass Spectrometry/ Liquid Chromatography-Mass Spectrometer (LC-MS)

Specimen No.	4	---	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
4-aminoazobenzene	60-09-3	ND	---	---	<b>30</b>
<b>Conclusion</b>	PASS	---	---	---	

*Note:*  
 mg/kg = Milligrams per kilogram  
 LT = Less than  
 ND = Not detected (Reporting Limit = 5 mg/kg)

*Remark:*  
 In the case of determined levels of 4-aminoazobenzene less than or equal to 30 mg/kg  
 - According to the analysis as carried out, azo colorants which can release 4-aminoazobenzene by reductive cleavage of their azo group/s were not detected in the commodity submitted.



**DETAILED RESULTS:****Regulation (EC) No. 1907/2006 REACH Annex XVII as amended, Item 51 and 52 Phthalates – Mouthable (DBP, BBP, DEHP, DIBP, DnOP, DINP, DIDP)**

Test Method: CPSC-CH-C1001-09.4

Analytical Method: Gas Chromatography with Mass Spectrometry

Specimen No.		1	---	---	Limit (mg/kg)
Test Item	CAS No.	Result (mg/kg)	Result (mg/kg)	Result (mg/kg)	
Dibutyl phthalate (DBP)	84-74-2	ND	---	---	<b>1000</b>
Benzyl butyl phthalate (BBP)	85-68-7	ND	---	---	<b>1000</b>
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	---	---	<b>1000</b>
Diisobutyl phthalate (DIBP)	84-69-5	ND	---	---	<b>1000</b>
Sum of DBP, BBP, DEHP, DIBP		ND	---	---	<b>1000</b>
Di-n-octyl phthalate (DnOP)	117-84-0	ND	---	---	
Diisononyl phthalate (DINP)	28553-12-0 68515-48-0	ND	---	---	
Diisodecyl phthalate (DIDP)	26761-40-0 68515-49-1	ND	---	---	
Sum of DnOP, DINP, DIDP		ND	---	---	<b>1000</b>
<b>Conclusion</b>		PASS	---	---	

**Note:**

mg/kg (Milligrams per kilogram) = ppm (Parts per million) = 0.0001 % m/m (Percent by mass)

LT = Less than

ND = Not detected (Reporting Limit = 150 mg/kg)





**SPECIMEN DESCRIPTION:**

Specimen No.	Specimen Description	Location
1	Transparent lacquer	Handle
2	Natural colour wood	Handle
3	Silvery metal	Scoop
4	Brown synthetic leather	Sling





**SAMPLE PHOTO:**



-End Report-

