



Test Report

Report No. A2230428994101

Page 1 of 11

Company Name MID OCEAN BRANDS B.V.**shown on Report****Address** 7/F, KINGS TOWER, 111 KING LAM STREET, CHEUNG SHA WAN, KOWLOON,
HONG KONG**The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client**

Sample Name	Cotton skipping rope
Item No.	MO6140
Vendor code	116737
Client Specified Age Grading	Not stated
Labeled Age Grading	Not suitable for children under three years
Age Group Applied in Testing	Over 3 years
Sample Received Date	Aug. 22, 2023
Testing Period	Aug. 22, 2023 to Aug. 29, 2023

Test Conducted:

As requested by the applicant. For details refer to next page(s)



Approved by

*Victor Wang*Victor Wang
Lab Manager

Date

Aug. 29, 2023

Centre Testing International Group Co., Ltd.

Inspection CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R.

China

*Hill Zheng*Hill Zheng
Technical Manager*Jeff Chen*Jeff Chen
Lab authorized signatory
No. T517951711

Test Report

Report No. A2230428994101

Page 2 of 11

Executive Summary:**TEST REQUEST****CONCLUSION**

1) EN 71-1:2014+A1:2018 European Standard on Safety of Toys	
- Mechanical and Physical Properties	PASS
2) EN 71-2:2020 European Standard on Safety of Toys	
- Flammability	PASS
3) EN 71-3:2019+A1:2021 European Standard on Safety of Toys	
- Migration of certain elements	PASS
4) EN 71-9:2005+A1:2007 Safety of toys-Part 9: Organic chemical compounds Requirements	
- Formaldehyde in resin-bonded wood	PASS
5) Annex XVII of European regulation (EC) No. 1907/2006 (REACH) with Amendment(s)	
- Benzene	PASS
- Cadmium and its compounds	PASS
- Azo colourants	PASS
- Phthalates in plasticized materials	PASS
6) Regulation (EU) 2019/1021 on persistent organic pollutants (POPs)	
- Pentachlorophenol and its salts and esters	PASS
7) Color Fastness to Rubbing (BS EN ISO 105-X12:2016)	PASS

For chemical test, the tested component(s) is/are identified by the client.

***** For further details, please refer to the following page(s) *****

Test Report

Report No. A2230428994101

Page 3 of 11

1) EN 71-1:2014+A1:2018 European Standard on Safety of Toys

▼ Mechanical and Physical Properties

As specified in European Standard on Safety of Toys EN 71 part 1:2014+A1:2018.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4	General requirements	
4.1	Material cleanliness.....	Pass
4.4	Toy bags.....	N/A
4.7	Edges.....	Pass
4.8	Points and metallic wires.....	Pass
7	Warnings, markings and instructions for use	
7.1	General	N/A
7.2	Toys not intended for children under 36 months	N/A

(Remark : Age warning should not be required for toys manifestly unsuitable for children under 36 months.)

Annex
A.33 Warnings, markings and instructions for use

<u>Check points</u>	<u>Location where the information is</u>	
	<u>On toy</u>	<u>On packaging</u>
CE Mark	✓	×
Product ID	✓	×
Manufacturer's Name & Address	×	×
Importer's Name & Address	×	×

Remark:

- ①: Toys made available on the market must bear the CE marking. The CE marking must be subject to the general principle set out in Article 30 of Regulation (EC) No 765/2008. The CE marking must be affixed visibly, legibly and indelibly to the toy, to an affixed label or to the packaging.
- ②: The manufacturer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy. This requirement applies also to the name and address etc. of any importer.
- ③: The manufacturer must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

N/A = Not Applicable

Note:

- Only applicable clause(s) was/ were shown.

Test Report

Report No. A2230428994101

Page 4 of 11

2) EN 71-2:2020 European Standard on Safety of Toys**▼ Flammability**

As specified in European Standard on Safety of Toys EN 71-2:2020.

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4	Requirements	
4.1	General requirements (The following materials shall not be used in the manufacture of toys except as provided in EN 71-2:2020: Celluloid, highly flammable solids, materials with a piled surface which produce surface flash, flammable gases, extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels.)	Pass

Note:

- Only applicable clause(s) was/ were shown.

Test Report

Report No. A2230428994101

Page 5 of 11

3) EN 71-3:2019+A1:2021 European Standard on Safety of Toys▼ Migration of certain elements

Method(s) EN 71-3:2019+A1:2021 was/were used, and the item(s) was/were analyzed by ICP-OES, ICP-MS, IC-UV and/or GC-MS.

Category III: scraped-off toy material

Tested Item(s)	Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	001	002	003	004	005		
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	28130
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	1	17
Chromium (III) ^{#1}	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.002	0.053
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	1	23
Manganese (Mn)	N.D.	144	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) ^{#2}	N.D.	N.D.	N.D.	N.D.	N.D.	2	180000
Organic tin (TBT) ^{#3}	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	46000

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- ^{#1} Trivalent chromium (Cr (III)) = Chromium (Cr) - Hexavalent chromium (Cr (VI)).
- ^{#2} Tin (Sn) content can be used for screen test for organic tins analysis to show compliance with the requirement of EN 71-3:2019+A1:2021.

Test Report

Report No. A2230428994101

Page 6 of 11

- #3 The migration of organic tin is expressed as tributyltin (TBT). Where the tin content exceeded the limit of organic tin, eleven organic tins listed in the table were determined by GC-MS and the client should note there are other organic tins that may be present in toy materials.

Organic tins tested under EN 71-3:2019+A1:2021
Methyl tin (MeT)
Butyl tin (BuT)
Dibutyl tin (DBT)
Tributyl tin (TBT)
Tetrabutyl tin (TeBT)
n-Octyl tin (MOT)
Di-n-octyl tin (DOT)
Di-n-propyl tin (DProT)
Diphenyl tin (DPhT)
Triphenyl tin (TPhT)
Dimethyl tin (DMT)

4) EN 71-9:2005+A1:2007 Safety of toys-Part 9: Organic chemical compounds Requirements

▼ Formaldehyde in resin-bonded wood

As specified in EN 71-9:2005+A1:2007-Organic chemical compounds-Requirements clause 4.3.3, method(s) EN 717-3:1996 was/were used, and the item(s) was/were analyzed by UV-Vis.

<u>Tested Item(s)</u>	<u>Result</u> (mg/kg)	<u>MDL</u> (mg/kg)	<u>Limit</u> (mg/kg)
	002		
Formaldehyde	N.D.	5.0	80

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

Test Report

Report No. A2230428994101

Page 7 of 11

5) Annex XVII of European regulation (EC) No. 1907/2006 (REACH) with Amendment(s)▼ Benzene

Entry 5, annex XVII of European regulation (EC) No. 1907/2006 (REACH) with amendment No. 552/2009

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
	001		
Benzene	N.D.	5	1000

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- 1000 mg/kg = 0.1%

▼ Cadmium and its compounds

Entry 23, annex XVII of European regulation (EC) No. 1907/2006 (REACH) with amendments No. 552/2009 & No. 494/2011 & No. 835/2012 & No. 2016/217

Test Method: EN 1122:2001(E) method B; Test Equipment: ICP-OES

<u>Tested Item(s)</u>	<u>Result (mg/kg)</u>	<u>MDL (mg/kg)</u>	<u>Limit (mg/kg)</u>
	001		
Cadmium (Cd)	N.D.	2	100

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million

Test Report

Report No. A2230428994101

Page 8 of 11

▼ **Azo colourants**

Entry 43, annex XVII of European regulation (EC) No. 1907/2006 (REACH) with amendment No.552/2009

Test Method: ISO 14362-1:2017(E); Test Equipment: GC-MS and/or HPLC

Tested Item(s)	CAS No.	Result (mg/kg)	MDL (mg/kg)
		004+005	
4-Aminodiphenyl	92-67-1	N.D.	5
Benzidine	92-87-5	N.D.	5
4-Chloro-O-Toluidine	95-69-2	N.D.	5
2-Naphthylamine	91-59-8	N.D.	5
O-Aminoazotoluene	97-56-3	N.D.	5
2-Amino-4-Nitrotoluene	99-55-8	N.D.	5
P-Chloroaniline	106-47-8	N.D.	5
2,4-Diaminoanisole	615-05-4	N.D.	5
4,4'-Diaminodiphenylmethane	101-77-9	N.D.	5
3,3'-Dichlorobenzidine	91-94-1	N.D.	5
3,3'-Dimethoxybenzidine	119-90-4	N.D.	5
3,3'-Dimethylbenzidine	119-93-7	N.D.	5
3,3'-Dimethyl-4,4'-Diaminodiphenylmethane	838-88-0	N.D.	5
P-Cresidine	120-71-8	N.D.	5
4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	N.D.	5
4,4'-Oxydianiline	101-80-4	N.D.	5
4,4'-Thiodianiline	139-65-1	N.D.	5
O-Toluidine	95-53-4	N.D.	5
2,4-Toluylenediamine	95-80-7	N.D.	5
2,4,5-Trimethylaniline	137-17-7	N.D.	5
O-Anisidine	90-04-0	N.D.	5
P-Aminoazobenzene	60-09-3	N.D.	5
2,4-Xylidine※	95-68-1	N.D.	5
2,6-Xylidine※	87-62-7	N.D.	5

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- Requirement: ≤ 30 mg/kg
- Results shown of additional Amines 2,4-Xylidine and 2,6-Xylidine are reported for reference only.
- “※” indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.

Test Report

Report No. A2230428994101

Page 9 of 11

▼ **Phthalates in plasticized materials**

Entry 51 & entry 52, annex XVII of European regulation (EC) No. 1907/2006 (REACH) with amendment No.552/2009 & No 2015/326 & (EU) 2018/2005

Test Method: Refer to EN 14372:2004(E); Test Equipment: GC-MS

Tested Item(s)	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	001		
Di-2-ethylhexyl Phthalate (DEHP)	N.D.	30	1000
Dibutyl Phthalate (DBP)	N.D.	30	1000
Benzylbutyl Phthalate (BBP)	N.D.	30	1000
Di-isobutyl Phthalate (DIBP)	N.D.	30	1000
SUM(DEHP+DBP+BBP+DIBP)	N.D.	--	1000
Diisononyl Phthalate (DINP)	N.D.	50	--
Di-n-octyl Phthalate (DNOP)	N.D.	30	--
Diisodecyl Phthalate (DIDP)	N.D.	50	--
SUM(DINP+DNOP+DIDP)	N.D.	--	1000

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- 1000 mg/kg = 0.1%
- Method EN 14372:2004 was accredited by CNAS on six phthalates (DEHP, DBP, BBP, DINP, DIDP, DNOP) test in this report.

6) **Regulation (EU) 2019/1021 on persistent organic pollutants (POPs)**▼ **Pentachlorophenol and its salts and esters**※

Test Method: Refer to ISO 17070:2015; Test Equipment: GC-MS

Tested Item(s)	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	002		
Pentachlorophenol and its salts and esters	N.D.	1	5

Test Report

Report No. A2230428994101

Page 10 of 11

Remark:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- The test result of Pentachlorophenol and its salts and esters is calculated by Pentachlorophenol.
- “※” indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.

7) Color Fastness to Rubbing (BS EN ISO 105-X12:2016)

Tested Item(s)	Test Result(grade)	Applicant's Requirement(grade)
	003	
Wet	4-5	$\geq 2-3$
Dry	4-5	$\geq 2-3$

Tested Item(s)	Test Result(grade)	Applicant's Requirement(grade)
	004	
Wet	4-5	$\geq 2-3$
Dry	4-5	$\geq 2-3$

Tested Item(s)	Test Result(grade)	Applicant's Requirement(grade)
	005	
Wet	4-5	$\geq 2-3$
Dry	4-5	$\geq 2-3$

Tested Sample/Part Description

No.	CTI Sample ID	Description
1	001	White elastic plastic(lining of cord)
2	002	Natural wood(handle)
3	003	White cord(cord)
4	004	Beige fabric with beige thread(storage bag)
5	005	Beige cord(storage bag)

Test Report

Report No. A2230428994101

Page 11 of 11

Photo(s) of the sample(s)



Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Without written approval of CTI, this report can't be reproduced except in full;

*** End of Report ***