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Applicant: Mid Ocean Brands B.V.

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 client as:

Sample Name: Brain teaser puzzle in bamboo

Model: MO6987; MO6988

Vendor code: 107978

Labeled Age Grade: Not provided

Requested Age Grade: Over 3 years old

Tested Age Grade: Over 3 years old

**Receiving Date:** Mar 18,2025; Apr 9,2025

Test Period: From Mar 18,2025 to Apr 18,2025

Add Information:

### **Test Summary:**

| # | Test Item(s)  | Conclusion |
|---|---|------------|
| 1 | EN 71-1:2014+A1:2018 Safety of Toys: Mechanical and Physical Properties           | PASS       |
| 2 | EN 71-2:2020 Safety of Toys: Flammability   | PASS       |
| 3 | EN 71-3:2019+A1:2021 Safety of Toys: Migration of Certain Elements                | PASS       |
| 4 | Item 77 of Annex XVII of REACH Regulation (EC) 1907/2006 - Formaldehyde           | PASS       |
| 5 | POPs European Regulation (EU) 2019/1021 Annex I - Pentachlorophenol (PCP) content | PASS       |





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| # | Test Item(s)  | Conclusion |
|---|---|------------|
| 6 | Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 - Cadmium content  | PASS       |
| 7 | Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006 - Phthalate content ( DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP)                   | PASS       |
| 8 | Polycyclic-aromatic hydrocarbons (PAHs) contentItem 50 of Annex XVII of REACH Regulation (EC) 1907/2006 & amendment (EU) No 1272/2013 | PASS       |
| 9 | Benzene content-Item 5 of Annex XVII of REACH Regulation (EC) 1907/2006   | PASS       |

#### Result:

### 1. EN 71-1:2014+A1:2018 Safety of Toys: Mechanical and Physical Properties

| Clause | Test Item(s)   | Results |
|--------|--|---------|
| 4      | General requirements   |         |
| 4.1    | Material cleanliness   | Pass    |
| 4.2    | Assembly   | NA      |
| 4.3    | Flexible plastic sheeting  | NA      |
| 4.4    | Toy bags   | NA      |
| 4.5    | Glass  | NA      |
| 4.6    | Expanding materials  | NA      |
| 4.7    | Edges  | Pass    |
| 4.8    | Points and metallic wires  | Pass    |
| 4.9    | Protruding parts   | NA      |
| 4.10   | Parts moving against each other                                    | NA      |
| 4.11   | Mouth-actuated toys and other toys intended to be put in the mouth | NA      |
| 4.12   | Balloons   | NA      |
| 4.13   | Cords of toy kites and other flying toys                           | NA      |
| 4.14   | Enclosures   | NA      |



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|      |  | 1  |
|------|--|----|
| 4.15 | Toys intended to bear the mass of a child  | NA |
| 4.16 | Heavy immobile toys  | NA |
| 4.17 | Projectile toys  | NA |
| 4.18 | Aquatic toys and inflatable toys   | NA |
| 4.19 | Percussion caps specifically designed for use in toys and toys using percussion caps | NA |
| 4.20 | Acoustics  | NA |
| 4.21 | Toys containing a non-electrical heat source   | NA |
| 4.22 | Small balls  | NA |
| 4.23 | Magnets  | NA |
| 4.24 | Yo-yo balls  | NA |
| 4.25 | Toys attached to food  | NA |
| 4.26 | Toy disguise costumes  | NA |
| 4.27 | Flying toys  | NA |
| 5    | Toys intended for children under 36 months   |    |
| 5.1  | General requirement  | NA |
| 5.2  | Soft-filled toys and soft-filled parts of a toy                                      | NA |
| 5.3  | Plastic sheeting   | NA |
| 5.4  | Cords, chains and electrical cables in toys  | NA |
| 5.5  | Liquid-filled toys   | NA |
| 5.6  | Speed limitation of electrically-driven ride-on toys                                 | NA |
| 5.7  | Glass and porcelain  | NA |
| 5.8  | Shape and size of certain toys   | NA |
| 5.9  | Toys comprising monofilament fibres  | NA |
| 5.10 | Small balls  | NA |



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|      |  | _    |
|------|--|------|
| 5.11 | Play figures   | NA   |
| 5.12 | Hemispheric-shaped toys  | NA   |
| 5.13 | Suction cups   | NA   |
| 5.14 | Straps intended to be worn fully or partially around the neck              | NA   |
| 5.15 | Sledges with cords for pulling   | NA   |
| 6    | Packaging  | NA   |
| 7    | Warnings, markings and instructions for use                                |      |
| 7.1  | General  | Pass |
| 7.2  | Toys not intended for children under 36 months                             | Pass |
| 7.3  | Latex balloons   | NA   |
| 7.4  | Aquatic toys   | NA   |
| 7.5  | Functional toys  | NA   |
| 7.6  | Hazardous sharp functional edges and points                                | NA   |
| 7.7  | Projectile toys  | NA   |
| 7.8  | Imitation protective masks and helmets                                     | NA   |
| 7.9  | Toy kites  | NA   |
| 7.10 | Roller skates, inline skates, skateboards and certain other ride-on toys   | NA   |
| 7.11 | Toys otherwise intended to be strung across a cradle, cot, or perambulator | NA   |
| 7.12 | Liquid-filled teethers   | NA   |
| 7.13 | Percussion caps specifically designed for use in toys                      | NA   |
| 7.14 | Acoustics  | NA   |
| 7.15 | Toy bicycles   | NA   |
| 7.16 | Toys intended to bear the mass of a child                                  | NA   |
| 7.17 | Toys comprising monofilament fibres  | NA   |



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| 7.18   | Toy scooters  | NA |
|--|---|----|
| 7.19   | Rocking horses and similar toys   | NA |
| 7.20   | Magnetic / electrical experimental sets   | NA |
| 7.21   | Toys with electrical cables exceeding 300 mm in length                                    | NA |
| 7.22   | Toys with cords or chains intended for children of 18 months and over but under 36 months | NA |
| 7.23 Toys intended to be attached to a cradle, cot or perambulator |   | NA |
| 7.24   | Sledges with cords for pulling  | NA |
| 7.25   | Flying toys   | NA |
| 7.26   | Improvised projectiles  | NA |

Remark(s): (a) NA = Not Applicable

### 2. EN 71-2:2020 Safety of Toys: Flammability

| Clause | Test Item(s)  | Results |  |
|--------|---|---------|--|
| 4.1    | General requirements  | Pass    |  |
| 4.2    | Toys to be worn on the head   | NA      |  |
| 4.3    | Toy disguise costumes and toys intended to be worn by a child in play | NA      |  |
| 4.4    | Toys intended to be entered by a child                                | NA      |  |
| 4.5    | Soft-filled toys  | NA      |  |

Remark(s): (a) NA = Not Applicable

(b) Except for 4.1 Flammable, highly flammable and extremely flammable gases, liquids and gelatinous bodies materials.



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3.

Safety of Toys: Migration of Certain Elements EN 71-3:2019+A1:2021 General elements determined by ICP-MS Chromium(VI) determined by LC-ICP-MS Organic tin determined by GC-MS

|    |                        |      | Results                    |      |                  |                |
|----|------------------------|------|----------------------------|------|------------------|----------------|
|    | Test Item(s)           |      | Category III <sup>11</sup> |      | Limit<br>(mg/kg) | MDL<br>(mg/kg) |
|    |                        | 1    | 2                          | 3    |                  |                |
| 1  | Aluminum (Al)          | N.D. | NA                         | 934  | 28130            | 10             |
| 2  | Antimony (Sb)          | N.D. | NA                         | N.D. | 560              | 2              |
| 3  | Arsenic(As)            | N.D. | NA                         | N.D. | 47               | 0.2            |
| 4  | Barium(Ba)             | N.D. | NA                         | 19   | 18750            | 10             |
| 5  | Boron (B)              | N.D. | NA                         | N.D. | 15000            | 10             |
| 6  | Cadmium (Cd)           | N.D. | NA                         | N.D. | 17               | 0.01           |
| 7  | Chromium (III)<br>(Cr) | N.D. | NA                         | N.D. | 460              | 1.0            |
| 8  | Chromium (VI)<br>(Cr)  | N.D. | NA                         | N.D. | 0.053            | 0.005          |
| 9  | Cobalt (Co)            | N.D. | NA                         | N.D. | 130              | 0.2            |
| 10 | Copper (Cu)            | N.D. | NA                         | N.D. | 7700             | 10             |
| 11 | Lead(Pb)               | N.D. | NA                         | N.D. | 23               | 0.1            |
| 12 | Manganese (Mn)         | 47   | NA                         | 23   | 15000            | 10             |
| 13 | Mercury (Hg)           | N.D. | NA                         | N.D. | 94               | 0.2            |
| 14 | Nickel (Ni)            | N.D. | NA                         | N.D. | 930              | 1.0            |
| 15 | Selenium(Se)           | N.D. | NA                         | N.D. | 460              | 1.0            |
| 16 | Strontium (Sr)         | N.D. | NA                         | 27   | 56000            | 10             |
| 17 | Tin (Sn)               | N.D. | NA                         | N.D. | 180000           | 2.0            |
| 18 | Organic tin (Sn)*2     | N.D. | NA                         | N.D. | 12               | 0.05           |
| 19 | Zinc (Zn)              | N.D. | NA                         | 28   | 46000            | 10             |



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| - | Conclusion | PASS | PASS* | PASS | - | - |
|---|------------|------|-------|------|---|---|
|   |            |      |       |      |   |   |

Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm

(b) MDL: Method detected limit

(c) N.D.: Not detected (result is less than MDL)

(d) \*=According to regulatory requirements, material test point #2 weighing less than 10 mg does not need to be tested.

\*1: Categories of various materials:

Category I: Dry, brittle, powder like or pliable material

Category II: Liquid or sticky material Category III: Scraped-off material \*2: Measured by soluble Tributyltin.

# 4. Item 77 of Annex XVII of REACH Regulation (EC) 1907/2006 - Formaldehyde EN 717-1:2004, determined by UV-Vis

| Compound |                             | Material<br>1 | Limit<br>(mg/m³) | RL<br>(mg/m³) |
|----------|-----------------------------|---------------|------------------|---------------|
| 1        | Formaldehyde<br>CAS#50-00-0 | 0.010         | 0.062            | 0.005         |
|          | Conclusion                  | PASS          | -                | -             |

Remark: (a)mg/m³: mg per cubic meter

(b) RL: Report limit

(c) N.D.: Not detected (result is less than RL)

## 5. POPs European Regulation (EU) 2019/1021 Annex I - Pentachlorophenol (PCP) content In house method, determined by GC-MS

|   | Test Item(s)                          | Result<br>1 | Limit<br>(mg/kg) | MDL<br>(mg/kg) |
|---|---------------------------------------|-------------|------------------|----------------|
| 1 | Pentachlorophenol(PCP)<br>CAS#87-86-5 | N.D.        | Not<br>Detected  | 5              |
| - | Conclusion                            | PASS        | -                | -              |

Remark(s): (a) MDL: Method detected limit

(b) N.D.: Not detected (result is less than MDL)

(c) mg/kg = milligram per kilogram = ppm



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#### Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 - Cadmium content IEC 62321-5:2013, determined by AAS

| Test item(s) |              | Toot itom(a)                  | Result | Limit   | MDL     |
|--------------|--------------|-------------------------------|--------|---------|---------|
|              | Test item(s) |                               | 2      | (mg/kg) | (mg/kg) |
|              | 1            | Cadmium (Cd)<br>CAS#7440-43-9 | N.D.   | 1000    | 10      |
|              | -            | Conclusion                    | PASS   | -       | -       |

Remark(s): (a) mg/kg: milligram per kilogram (b) MDL: Method detected limit

(c) N.D.: Not detected (result is less than MDL)

7. Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006 -Phthalate content ( DIBP、 DEHP、 DBP、 BBP、 DINP、 DIDP 、 DNOP) EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

|              |                    | Toot item(s)                                 | Result | Limit | MDL   |
|--------------|--------------------|--|--------|-------|-------|
| Test item(s) |                    | rest item(s)                                 | 2      | (%)   | (%)   |
| 1            | DBP                | Dibutyl Phthalate<br>CAS# 84-74-2            | N.D.   | 0.1   | 0.005 |
| 2            | BBP                | Benzylbutyl Phthalate<br>CAS# 85-68-7        | N.D.   | 0.1   | 0.005 |
| 3            | DEHP               | Bis-(2-ethylhexyl)Phthalate<br>CAS# 117-81-7 | N.D.   | 0.1   | 0.005 |
| 4            | DIBP               | Diisobutyl phthalate<br>CAS# 84-69-5         | N.D.   | 0.1   | 0.005 |
| 5            | DNOP               | Di-n-octyl phthalate<br>CAS# 117-84-0        | N.D.   | -     | 0.005 |
| 6            | DINP               | Di-iso-nonyl phthalate<br>CAS# 28553-12-0    | N.D.   | -     | 0.005 |
| 7            | DIDP               | Diisodecyl phthalate<br>CAS# 26761-40-0      | N.D.   | -     | 0.005 |
| -            | Sum of 1, 2, 3 & 4 |  | N.D.   | 0.1   |       |
| SI-I         | Sum of 5, 6 & 7    |  | N.D.   | 0.1   | -     |
| -            | - Conclusion       |  | PASS   | -     | -     |

Remark(s): (a) MDL: Method detected limit (b) N.D.: Not detected (result is less than MDL)



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Polycyclic-aromatic hydrocarbons (PAHs) content - Item 50 of Annex XVII of REACH Regulation (EC) 8. 1907/2006 & amendment (EU) No 1272/2013

AfPS-GS-2019-01:PAK, determined by GC-MS

|              |  | Result         |                  |                |  |
|--------------|--|----------------|------------------|----------------|--|
| Test Item(s) |  | Category II *1 | Limit<br>(mg/kg) | MDL<br>(mg/kg) |  |
|              |  | 2              |                  |                |  |
| 1            | Benz[a]anthracene(BaA)<br>CAS#56-55-3            | N.D.           | 0.5              | 0.2            |  |
| 2            | Chrysene(CHR)<br>CAS#218-01-9                    | N.D.           | 0.5              | 0.2            |  |
| 3            | Benz[b]fluoranthene(BbFA)<br>CAS#205-99-2        | N.D.           | 0.5              | 0.2            |  |
| 4            | Benz[k]fluoranthene(BkFA)<br>CAS#207-08-9        | N.D.           | 0.5              | 0.2            |  |
| 5            | Benz[j]fluoranthene(BjFA)<br>CAS#205-82-3        | N.D.           | 0.5              | 0.2            |  |
| 6            | Benzo[a]pyrene(BaP)<br>CAS#50-32-8               | N.D.           | 0.5              | 0.2            |  |
| 7            | Benzo[e]pyrene(BeP)<br>CAS#192-97-2              | N.D.           | 0.5              | 0.2            |  |
| 8            | Dibenz [a,h]anthracene<br>(DBahA)<br>CAS#53-70-3 | N.D.           | 0.5              | 0.2            |  |
| -            | Conclusion                                       | PASS           | -                | -              |  |

Remark:

Category I: Articles come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably

Category II: Toys, including activity toys, and childcare articles, that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity, under normal or reasonably foreseeable conditions of use.

#### Benzene content-Item 5 of Annex XVII of REACH Regulation (EC) 1907/2006 In house method, determined by GC-FID

| Test Item(s) |                        | Results | Limit   | MDL<br>(mg/kg) |
|--------------|------------------------|---------|---------|----------------|
|              |                        | 2       | (mg/kg) |                |
| 1            | Benzene<br>CAS#71-43-2 | N.D.    | #       | 0.5            |
| -            | Conclusion             | PASS    | -       | -              |

<sup>(</sup>a) mg/kg: milligram per kilogram

<sup>(</sup>b) MDL: Method detected limit (c) N.D.: Not detected (result is less than MDL)

<sup>1:</sup> Material category



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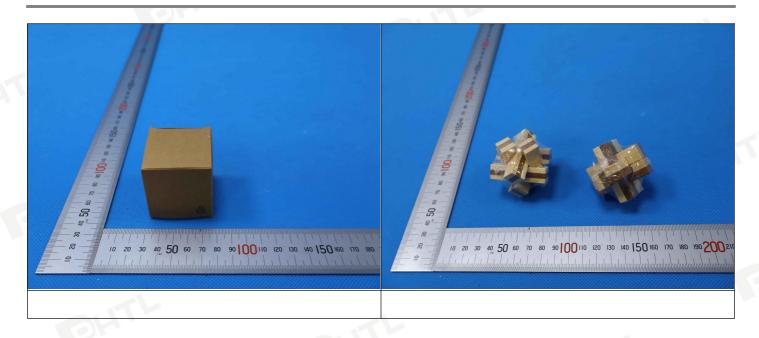
#### Remark(s): #:

- 1. Shall not be used in toys or parts of toys where the concentration of benzene in the free state is greater than 5mg/kg (0.0005%) of the weight of the toy or part of toy
- 2. Toys and parts of toys not complying with paragraph 1 shall not be placed on the market.
- 3. Shall not be placed on the market, or used,
- 4. However, paragraph 3 shall not apply to:
- (a) motor fuels which are covered by Directive 98/70/EC;
- (b) substances and mixtures for use in industrial processes not allowing for the emission of benzene in quantities in excess of those laid down in existing legislation
- (c)natural gas placed on the market for use by consumers, provided that the concentration of benzene remains below 0.1% volume/volume
- (d) MDL: Method detected limit
- (e) N.D.: Not detected (result is less than MDL)
- (f) mg/kg: milligram per kilogram

#### **Material List:**

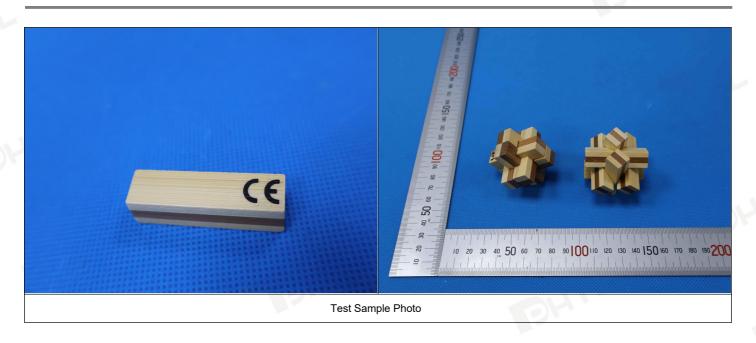
| Material # | Sample Description / Position |
|------------|-------------------------------|
| 1          | Brown bamboo,blocks           |
| 2          | Black coating,blocks          |
| 3          | Black printed brown paper,box |

### Photo(s):





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<<<< END OF REPORT >>>>>

#### 声明

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  - The Report refers only to the tested sample (Sample information is provided by customer) and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
- 8. 本检测报告的检测结果仅对送测样品负责,未加盖资质认定标志的检测报告不对社会具有公证证明作用,对于检测数据、结果的使用,所产生的直接或间接损 失及一切法律后果,本实验室不承担任何经济和法律责任。
  - This test data is only responsible for the tested sample. The data and results provided by the report without CMA accreditation are not to prove to the society, and DPHTL is not responsible for any economic and legal responsibility for the use of the test data, the direct or indirect losses resulting from the use of the test and all legal consequences.
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  - The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
- 11. 若需要在法院审理程序或者仲裁过程中使用测试报告,客户必须在提交测试样品前将该意图告知本公司。
  - Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
- 12. 该测试报告的支持数据和信息本公司保存6年。个别评审机构有特别要求的,检测数据和报告的保存期可依情况变动。一旦超过上述提交的存期限,数据和信息 将被处理掉。任何情况下,本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害,本公司在任何情况下也不必承担任何 损害,包括(但不限于)补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权(包括疏 ②)、产品责任或其他原因的惩罚性损害。
  - Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of 6 years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.