



# TEST REPORT

Report No.: STSGZ2305123068E

Date: 31-May-2023

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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:

**Item Name:** Brain teaser puzzle in bamboo

**Model:** MO6987; MO6988

**Labeled Age Grading:** Not provided

**Requested Age Grading:** 3Y+

**Tested Age Grading:** 3Y+

**Receiving Date:** 12-May-2023

**Test Period:** 12-May-2023 - 29-May-2023

**Add Information:** -

## Report Summary

| # | Test item(s)                                       | Reference Standard/Method                         | Result      |
|---|--|---|-------------|
| 1 | Safety of Toys: Mechanical and Physical Properties | EN 71-1:2014+A1:2018                              | <b>PASS</b> |
| 2 | Safety of Toys: Flammability                       | EN 71-2:2020                                      | <b>PASS</b> |
| 3 | Safety of Toys: Migration of Certain Elements      | EN 71-3:2019+A1:2021                              | <b>PASS</b> |
| 4 | Formaldehyde - EN 71-9:2005+A1:2007                | EN 717-3:1996, analyzed by Spectrophotometer(UV). | <b>PASS</b> |

\*\*\*\*\*

Signed for and on behalf of STS

Mark Mai  
(Technical Director)



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## Result:

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

**PASS**

| Clause | Parameter  | 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      |
| 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      |

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|      |  |    |
|------|--|----|
| 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 |
| 5.11 | Play figures   | NA |
| 5.12 | Hemispheric-shaped toys  | NA |
| 5.13 | Suction cups   | NA |

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|      |  |      |
|------|--|------|
| 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 teethingers  | 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   |
| 7.18 | Toy scooters   | NA   |
| 7.19 | Rocking horses and similar toys  | NA   |

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|      |   |    |
|------|---|----|
| 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): NA = Not Applicable

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

**PASS**

| Clause | Parameter   | 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

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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 IC-ICP-MS

Organic tin determined by GC-MS

| Compound          | Material            |             | Limit (mg/kg) | RL (mg/kg) |
|-------------------|---------------------|-------------|---------------|------------|
|                   | Category III*1      |             |               |            |
|                   | 1                   |             |               |            |
| 1                 | Aluminum (Al)       | N.D.        | 28130         | 10         |
| 2                 | Antimony (Sb)       | N.D.        | 560           | 10         |
| 3                 | Arsenic(As)         | N.D.        | 47            | 5          |
| 4                 | Barium(Ba)          | N.D.        | 18750         | 10         |
| 5                 | Boron (B)           | N.D.        | 15000         | 10         |
| 6                 | Cadmium (Cd)        | N.D.        | 17            | 5          |
| 7                 | Chromium (III) (Cr) | N.D.        | 460           | 10         |
| 8                 | Chromium (VI) (Cr)  | N.D.        | 0.053         | 0.053      |
| 9                 | Cobalt (Co)         | N.D.        | 130           | 10         |
| 10                | Copper (Cu)         | N.D.        | 7700          | 10         |
| 11                | Lead(Pb)            | N.D.        | 23            | 5          |
| 12                | Manganese (Mn)      | 69          | 15000         | 10         |
| 13                | Mercury (Hg)        | N.D.        | 94            | 10         |
| 14                | Nickel (Ni)         | N.D.        | 930           | 10         |
| 15                | Selenium(Se)        | N.D.        | 460           | 10         |
| 16                | Strontium (Sr)      | N.D.        | 56000         | 10         |
| 17                | Tin (Sn)            | N.D.        | 180000        | 4.9        |
| 18                | Organic tin (Sn)    | N.D. *2     | 12*2          | 0.2*2      |
| 19                | Zinc (Zn)           | 10          | 46000         | 10         |
| <b>Conclusion</b> |                     | <b>PASS</b> | -             | -          |

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Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

\*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: Expressed as soluble Tributyltin.

#### 4. Formaldehyde - EN 71-9:2005+A1:2007 With reference to EN 717-3:1996,analyzed by UV Spectrophotometer (UV).

| Compound          | Material    |  | Limit (mg/kg) | RL (mg/kg) |
|-------------------|-------------|--|---------------|------------|
|                   | 1           |  |               |            |
| 1 Formaldehyde    | N.D.        |  | 80            | 10         |
| <b>Conclusion</b> | <b>PASS</b> |  | -             | -          |

Remark: (a) mg/kg: milligram per kilogram  
(b) RL: Report limit  
(c) N.D.: Not detected (result is less than RL)

#### Material List:

| Material # | Position / Sample Description |
|------------|-------------------------------|
| 1          | Brown bamboo,holder           |

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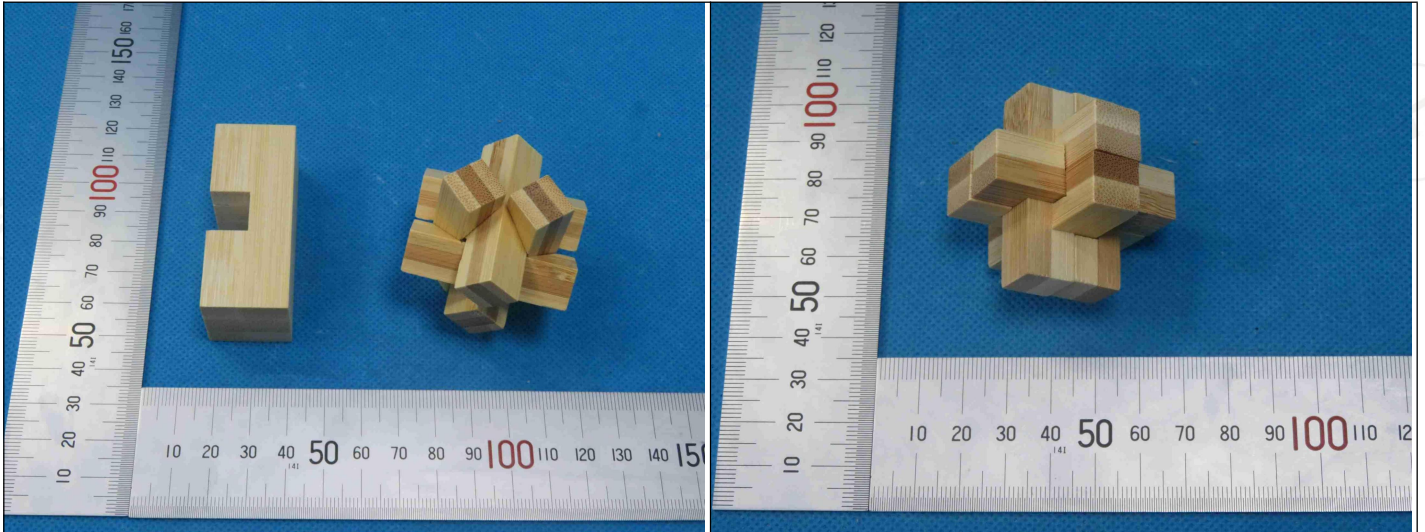
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## Photo(s):



Product Photo

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