

**Test Report**

Number: SHAH01122691

Applicant: NINGBO MIDEER TOYS CO LTD  
RM501, BUILDING NO.1,YIDU CULTURE  
SQUARE, HAISHU DISTRIC,  
NINGBO, ZHEJIANG  
Attn: Vera

Date: 01 Aug, 2019

Sample Description:

Two( 2 ) sets of submitted sample said to be :  
Item Name : **STICKER ANIMAL SERIES/STICKER OCEAN SERIES.**  
Item No. : **MD4062/MD4063.**  
Quantity : 2 sets  
Labelled Age Group : 3+  
Packaging Provided By Applicant : Yes  
Goods Exported To : Europe,Australia  
Country Of Origin : China

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Conclusion:

| <u>Tested samples</u>                | <u>Standard</u>   | <u>Result</u> |
|--------------------------------------|---|---------------|
| Submitted sample sets                | U.S. ASTM F963-17 Physical And Mechanical Tests   | Pass          |
|                                      | U.S. ASTM F963-17 Flammability Test of Materials Other Than Textile Materials   | Pass          |
| Tested component of submitted sample | U.S. ASTM F963-17 section 4.3.5.2(2)(b) for soluble elements content for non-surface coating materials  | Pass          |
|                                      | U.S. ASTM F963-17 for total Lead content  | Pass          |
|                                      | U.S. Consumer Product Safety Improvement Act 2008 title I, section 101 for total Lead content in non-surface coating materials (substrate)  | Pass          |
|                                      | US Consumer Product Safety Improvement Act 2008 Title I, Sec 108(a) & (b)(3) and US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates | Pass          |

To be continued

Authorized By:



Young Zhu  
Vice President



## Test Report

Number: SHAH01122691

### Tests Conducted

#### 1 Physical and Mechanical Tests

As per ASTM Standard Consumer Safety Specification for Toy Safety F963-17.

Applicant's Specified Age Group for Testing: For ages 3 years and up.

|   |                    |                  |
|---|--------------------|------------------|
| The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations: |                    |                  |
| <u>Test</u>   | <u>FHSA</u>        | <u>Parameter</u> |
| Impact Test   | Section 1500.53(b) | 4 x 3.0 ft       |
| Torque Test   | Section 1500.53(e) | 4 in-lbf         |
| Tension Test  | Section 1500.53(f) | 15 lbf           |
| Compression Test  | Section 1500.53(g) | 30 lbf           |

| <u>Section</u> | <u>Testing Items</u>   | <u>Assessment</u> |
|----------------|--|-------------------|
| 4.1            | Material Quality   | P                 |
| 4.5            | Sound-Producing Toys   | NA                |
| 4.6.1          | Toys Intended for Children under 36 Months (Small Objects)     | NA                |
| 4.6.2          | Mouth-Actuated Toys  | NA                |
| 4.6.3          | Toys And Games for 36 Months to 72 Months (Small Part Warning) | P                 |
| 4.7            | Accessible Edges   | P                 |
| 4.8            | Projections  | NA                |
| 4.9            | Accessible Points  | P                 |
| 4.10           | Wires Or Rods  | NA                |
| 4.11           | Nails And Fasteners  | NA                |
| 4.12           | Plastic Film   | P                 |
| 4.13           | Folding Mechanisms and Hinges                                  | NA                |
| 4.14           | Cords, Straps, and Elastics                                    | NA                |
| 4.15           | Stability and Over-Load Requirements                           | NA                |
| 4.16           | Confined Spaces  | NA                |
| 4.17           | Wheels, Tires and Axles  | NA                |
| 4.18           | Holes, Clearance, and Accessibility of Mechanisms              | NA                |
| 4.19           | Simulated Protective Devices                                   | NA                |
| 4.20           | Pacifiers  | NA                |
| 4.21           | Projectile Toys  | NA                |
| 4.22           | Teethers and Teething Toys                                     | NA                |
| 4.23           | Rattles  | NA                |
| 4.24           | Squeeze Toys   | NA                |
| 4.25           | Battery-Operated Toys  | NA                |
| 4.26           | Toys Intended to be Attached to a Crib or Playpen              | NA                |
| 4.27           | Stuffed and Beanbag-Type Toys                                  | NA                |
| 4.28           | Stroller and Carriage Toys                                     | NA                |
| 4.29           | Art Materials  | NA                |
| 4.30           | Toy Gun Marking  | NA                |



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#### Tests Conducted

| Section | Testing Items                                 | Assessment |
|---------|---|------------|
| 4.31    | Balloons                                      | NA         |
| 4.32    | Certain Toys with Nearly Spherical Ends       | NA         |
| 4.33    | Marbles                                       | NA         |
| 4.34    | Balls   | NA         |
| 4.35    | Pompoms                                       | NA         |
| 4.36    | Hemispheric-Shaped Objects                    | NA         |
| 4.37    | Yo Yo Elastic Tether Toys                     | NA         |
| 4.38    | Magnets                                       | NA         |
| 4.39    | Jaw Entrapment in Handles and Steering Wheels | NA         |
| 4.40    | Expanding Materials                           | NA         |
| 4.41    | Toy Chests                                    | NA         |
| 5       | Labelling Requirement                         | P          |
| 6       | Instructional Literature                      | P          |
| 7       | Producer's Markings                           |            |
|         | - Name of Producer/Distributor (Package)      | Yes        |
|         | - Address (Package)                           | Yes        |

Remark: The submitted samples were undergone the tests in accordance with Section 8.5 through Section 8.18 and 8.21 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

P = Pass

NA = Not Applicable

Date Sample Received: 23 Jul, 2019

Testing Period: 23 Jul, 2019 To 31 Jul, 2019

#### 2 Flammability Test

As per section 4.2 of the ASTM Standard Consumer Safety Specification On Toy Safety F963-17.

| Sample        | Ignition Point | Burn Length | Time  | Actual Burn Rate | Limit      |
|---------------|----------------|-------------|-------|------------------|------------|
|               |                | (inch)      | (sec) | (inch/sec)       | (inch/sec) |
| sticker sheet | corner         | 4           | 60    | 0.07             | 0.10       |

All styles of the submitted toy samples and its accessories were tested, the above result only showed the most severe burn rate of the samples.

Date Sample Received: 23 Jul, 2019

Testing Period: 23 Jul, 2019 To 31 Jul, 2019

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To be continued



**Test Report**

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Tests Conducted

3 Soluble Elements Analysis In Non-Surface Coating Materials (Substrate Except Modelling Clay)

As per section 4.3.5.2(2)(b) of the ASTM standard consumer safety specification on toy safety F963-17, acid extraction method was used and heavy metal elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

|                    | Result (ppm) | Limit (ppm) |
|--------------------|--------------|-------------|
|                    | (1)          |             |
| Sol. Barium (Ba)   | <5           | 1000        |
| Sol. Lead (Pb)     | <5           | 90          |
| Sol. Cadmium (Cd)  | <5           | 75          |
| Sol. Antimony (Sb) | <5           | 60          |
| Sol. Selenium (Se) | <5           | 500         |
| Sol. Chromium (Cr) | <5           | 60          |
| Sol. Mercury (Hg)  | <5           | 60          |
| Sol. Arsenic (As)  | <2.5         | 25          |

Remark: Sol. = soluble  
ppm = parts per million = mg/kg

Tested components: See component list in the last section of this report.

Date Sample Received: 23 Jul, 2019  
Testing Period: 23 Jul, 2019 To 30 Jul, 2019

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To be continued



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Tests Conducted

4 Total Lead (Pb) Content

As per section 4.3.5 of the ASTM standard consumer safety specification on toy safety F963-17, test method CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 or/and CPSC-CH-E1003-09.1 was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

( I ) Surface coating

|  | Result         |  |
|--|----------------|--|
|  | Not Applicable |  |

( II ) Non-surface coating

| Tested component | Result in ppm | Limit (ppm) |
|------------------|---------------|-------------|
| (1)              | <20           | 100         |

Remark: ppm = parts per million = mg/kg

Tested Components: See component list in the last section of this report.

Date Sample Received: 23 Jul, 2019

Testing Period: 23 Jul, 2019 To 30 Jul, 2019

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To be continued



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Tests Conducted

5 Total Lead (Pb) Content In Non-Surface Coating Materials (Substrate)

As per standard operating procedures for determining total Lead (Pb) in children's products, test method(s) CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001-08.3 was/were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

| Tested Component | Result (ppm) | Limit (ppm) |
|------------------|--------------|-------------|
| (1)              | <20          | 100         |

Remark: ppm = Parts per million = mg/kg

Tested Components: See component list in the last section of this report.

Date Sample Received: 23 Jul, 2019

Testing Period: 23 Jul, 2019 To 30 Jul, 2019

6 Phthalate Content

With reference to CPSC-CH-C1001-09.4, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

| Test item                          | Result (%) | Limit (%) (Max.) |
|------------------------------------|------------|------------------|
|                                    | (1)        |                  |
| Dibutyl phthalate (DBP)            | ND         | 0.1              |
| Di-(2-ethylhexyl) phthalate (DEHP) | ND         | 0.1              |
| Benzyl butyl phthalate (BBP)       | ND         | 0.1              |
| Diisononyl phthalate (DINP)        | ND         | 0.1              |
| Diisobutyl phthalate (DIBP)        | ND         | 0.1              |
| Di-n-pentyl phthalate (DPENP)      | ND         | 0.1              |
| Di-n-hexyl phthalate (DHEXP)       | ND         | 0.1              |
| Dicyclohexyl phthalate (DCHP)      | ND         | 0.1              |

The above limit was quoted according to 16 CFR part 1307 approved by U.S. Consumer Product Safety Commission (CPSC) for prohibition of children's toys and child care articles containing specified phthalates.

Remark: ND = Not Detected  
Detection Limit = 0.01%

Tested Component(s): See component list in the last section of this report.

Date Sample Received: 23 Jul, 2019

Testing Period: 23 Jul, 2019 To 30 Jul, 2019

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To be continued



## Test Report

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### Tests Conducted



### Component:

- (1) Transparent film with four-color printed coating.

End of report

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