



## ONE FOR FUN LTD

**Technical Report:** (8823)223-0038

Aug 26, 2023

Date Received: Aug 11, 2023

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ONE FOR FUN LTD  
3 5 CAMBUSLANG WAY, GATEWAY OFFICE PARK,  
CAMBUSLANG, GLASGOW, G32 8ND, UK

|                        |                     |                     |              |
|------------------------|---------------------|---------------------|--------------|
| Sample Description:    | PINBALL GAME        | Sample Size:        | 2            |
| Vendor:                | N/A                 | Style No(s):        | SV21666      |
| Manufacturer:          | N/A                 | SKN/SKU No.:        | NOT PROVIDE  |
| Labeled Age Grade:     | FOR AGES 3 & UP     | PO No.:             | NOT PROVIDE  |
| Appropriate Age Grade: | NOT REQUESTED       | Ref #:              | NOT PROVIDE  |
| Client Specified Age   | 3+                  |                     |              |
| Grade:                 |                     |                     |              |
| Tested Age Grade:      | OVER 3 YEARS OF AGE | Country of Origin:  | CHINA        |
| UPC Code:              | N/A                 | Assortment No.:     | NOT PROVIDE  |
| Further Information    | AUG 23, 2023        |                     |              |
| Date:                  |                     |                     |              |
| Test Starting Date:    | AUG 11, 2023        | Test Finished Date: | AUG 26, 2023 |

### EXECUTIVE SUMMARY:

| Test Requested  | Conclusion |
|---|------------|
| Mechanical and physical properties requirements of the tested subclauses of the European Standard, "Safety of toys", EN71: Part 1:2014+A1:2018 clauses 1-7. | PASS       |
| Flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2020.   | PASS       |
| Mechanical hazards requirements of ASTM F963-17, "Standard consumer safety specification for toy safety".   | PASS       |
| Flammability requirement of solids under ASTM F963-17 section 4.2 according to Annex A5, "Flammability testing procedure for solids and soft toys".         | PASS       |

To be continued.

BUREAU VERITAS SHENZHEN CO.,LTD  
DONGGUAN BRANCH

BUREAU VERITAS SHENZHEN CO.,LTD  
DONGGUAN BRANCH



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### REMARK

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**EXECUTIVE SUMMARY:**

| Test Requested   | Conclusion |
|--|------------|
| Migration of Certain Elements in Category III - Scraped off toy material requirements of the European Standard, "Safety of toys", EN 71-3:2019+A1:2021.  | PASS       |
| Total Cadmium Content – European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII, Item no. 23.  | PASS       |
| Total lead content in surface coating requirements of ASTM F963-17, "Standard consumer safety specification for toy safety", Section 4.3.5.1(1).   | NA         |
| Total lead content in substrate requirements of ASTM F963-17, "Standard consumer safety specification for toy safety", Section 4.3.5.2(2)(a).  | PASS       |
| Soluble heavy metals content in surface coating requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.1(2).   | NA         |
| Soluble heavy metals content in substrate requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b).  | PASS       |
| Total lead content requirements in children products according to the California Proposition 65 settlements of Alameda Superior Court RG 07356892.   | PASS       |
| BBP, DBP ,DEHP and DIBP content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 51(amended up to EU No.2018/2005). | PASS       |
| DNOP, DINP and DIDP content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 52.                                    | PASS       |
| BBP, DBP, DEHP, DnHP and DIDP content requirements in toys, child care articles and watches according to the California Proposition 65 settlements of County of Sacramento case number 07AS04683, and the Alameda Superior Court case numbers BG07350969, RG08367601, RG07351032 and RG08378050.   | PASS       |

- Note: At the request of the client, the sample(s) was evaluated for use by children 3+.
- Note: At the request of the client, the EN 71 Pt.1-2014+A1:2018: clause 7 labeling requirement(s) was not evaluated for this submission.
- Note: At the request of the client, the ASTM F963-17 labeling requirement(s) was not evaluated for this submission.
- Note: The composite test sample(s) of the submitted samples was prepared in the manner requested by the client, when subject to the test performed.



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**Tested Component(s) Description List:**

| Test Item(s) | Item / Component Description(s) | Location(s) | Style(s) |
|--------------|---------------------------------|-------------|----------|
| I001         | Transparent plastic             | Body        | -        |
| I002         | Brown plastic                   | Button      | -        |
| I003         | Multicolor printed white paper  | Base        | -        |
| I004         | Orange plastic                  | Bead        | -        |
| I005         | Pink plastic                    | Bead        | -        |
| I006         | Green plastic                   | Bead        | -        |
| I007         | Blue plastic                    | Bead        | -        |
| I008         | All coating                     | Surface     | -        |
| I009         | Rose pink plastic               | Bead        | -        |



**RESULTS:**

**APPROPRIATE AGE GRADE DETERMINATION**

|  |   |
|--|---|
| <p>The Appropriate Age Grade is determined with reference to the EN71 : Part 1 : 2014+A1:2018, CEN ISO/TR 8124-8:2016 Safety of toys - Part 8: Age determination guidelines prepared by Technical Committee CEN/TC 52 and Age Grade Determination Guidelines of the Consumer Product Safety Commission (CPSC).</p> |   |
| Note :   | The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.   |
| Note :   | If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing. |

EXPLANATION OF THE ABBREVIATIONS FOR PART 1, 2 & 6

| Symbol | Explanation   |        |                    |        |                     |
|--------|---|--------|--------------------|--------|---------------------|
| NM     | The sample(s) DOES NOT MEET the requirement of this Subclause |        |                    |        |                     |
| M      | The sample(s) MEET the requirement of this Subclause          |        |                    |        |                     |
| N/A    | Not Applicable  |        |                    |        |                     |
| NR     | Not Requested   |        |                    |        |                     |
| NE     | Not Evaluated   |        |                    |        |                     |
| NP     | None Present  |        |                    |        |                     |
| NT     | Not Tested  |        |                    |        |                     |
| P      | Present   |        |                    |        |                     |
| R      | Refer to Comment Section of this report                       |        |                    |        |                     |
| Symbol | Language Present  | Symbol | Language Present   | Symbol | Language Present    |
| B      | Belgian language  | G      | German language    | PR     | Portuguese language |
| D      | Danish language   | GR     | Greek language     | S      | Spanish language    |
| E      | English language  | H      | Dutch language     | SD     | Swedish language    |
| F      | Finnish language  | I      | Italian language   | SZ     | Swiss language      |
| FR     | French language   | N      | Norwegian language |        |                     |



**RESULTS:**

**MECHANICAL & PHYSICAL PROPERTIES  
 (EN 71: PART 1 – 2014+A1 – 2018)**

| Subclause   | Requirement  | Result |
|---|--|--------|
| 4.1   | Material cleanliness   | M      |
| 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 & 7.6   | Edges  | M      |
| 4.8 & 7.6   | Points and metallic wires  | M      |
| 4.8e  | Splinters  | M      |
| 4.9   | Protruding parts   | NA     |
| 4.10.1  | Folding and sliding mechanisms                                     | NA     |
| 4.10.2  | Driving mechanisms   | NA     |
| 4.10.3  | Hinges   | NA     |
| 4.10.4  | Springs  | NA     |
| 4.11  | Mouth actuated toys and other toys intended to be put in the mouth | NA     |
| 4.12 & 7.3  | Balloons   | NA     |
| 4.13 & 7.9  | Cord of toy kites and other flying toys                            | NA     |
| 4.14.1  | Toys which a child can enter                                       | NA     |
| 4.14.2 & 7.8  | Masks and helmets  | NA     |
| 4.15.1  | Toys propelled by child  |        |
| 4.15.1.2 & 7.10.1 & 7.10.2 & 7.10.3 & 7.10.4 & 7.16 | Toys propelled by child – Instructions for use                     | NA     |
| 4.15.1.3  | Toys propelled by child – Strength                                 | NA     |
| 4.15.1.4  | Toys propelled by child – Stability                                | NA     |
| 4.15.1.5  | Toys propelled by child – Braking                                  | NA     |
| 4.15.1.6  | Toys propelled by child - Transmission                             | NA     |
| 4.15.1.7  | Toys propelled by child – insertion mark                           | NA     |
| 4.15.1.8  | Electrically-driven ride-on toys                                   | NA     |
| 4.15.2  | Toy bicycles   |        |
| 4.15.2.2 & 7.15                                     | Toy bicycles – Warnings and instructions for use                   | NA     |
| 4.15.2.3  | Toy bicycles – Braking   | NA     |
| 4.15.3 & 7.16 & 7.19                                | Rocking horses and similar toys                                    | NA     |
| 4.15.4 & 7.16                                       | Toys not propelled by child  | NA     |
| 4.15.5 & 7.18                                       | Toy scooters   | NA     |



**RESULTS:**

| Subclause   | Requirement   | Result |
|---|---|--------|
| 4.16  | Heavy immobile toys   | NA     |
| 4.17.2  | All projectiles   | NA     |
| 4.17.3 & 7.7  | Projectile toys with stored energy  | NA     |
| 4.17.4 & 7.26   | Certain projectile toys without stored energy   | NA     |
| 4.18 & 7.4  | Aquatic toys and inflatable toys  | NA     |
| 4.19 & 7.13 & 7.14                                    | Percussion caps   | NA     |
| 4.20.2.1- 4.20.2.4,<br>4.20.2.6-4.20.2.12 &<br>7.14   | Acoustics   | NA     |
| *4.20.2.5   | Acoustics– Toys using headphones or earphones   | NA     |
| 4.21  | Toys containing a non-electrical heat source  | NA     |
| 4.22 & 7.2  | Small balls   | NT     |
| 4.23  | Magnet  |        |
| 4.23.2 a, b & c                                       | Toy other than magnetic / electrical experimental sets intended for children over 8 years | NA     |
| 4.23.3 & 7.20   | Magnetic / electrical experimental sets intended for children over 8 years                | NA     |
| 4.24  | Yo-yo ball  | NA     |
| 4.25  | Toys attached to food   | NA     |
| 4.26  | Toy Disguise Costumes   | NA     |
| 4.27.1  | Flying toys – General   | NA     |
| 4.27.2 & 7.25.1                                       | Rotors and propellers on flying toys  | NA     |
| 4.27.3 & 7.25.2                                       | Rotors and propellers on remote controlled flying toys                                    | NA     |
| <b>FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS</b> |   |        |
| 5.1   | General   | NA     |
| 5.1a  | Small parts – as received   | NA     |
| 5.1b  | Small parts, sharp points, sharp edges – after tests                                      | NA     |
| 5.1c  | Cross section <2mm metal points & wires   | NA     |
| 5.1e  | Toys contain glue   | NA     |
| 5.1f  | Casing of toys  | NA     |
| 5.2   | Fillings, coverings and seams   | NA     |
| 5.3   | Adhesion of plastic sheeting  | NA     |
| 5.4.2   | Cords and chains in toys intended for children under 18 months                            | NA     |



**RESULTS:**

| Subclause                             | Requirement   | Result |
|---------------------------------------|---|--------|
| 5.4.3 & 7.22                          | Cords and chains in toys intended for children of 18 months or over but under 36 months | NA     |
| 5.4.4                                 | Fixed loops, tangled loops and nooses   | NA     |
| 5.4.5                                 | Cords and chains on pull along toys   | NA     |
| 5.4.6 & 7.21                          | Electrical cables   | NA     |
| 5.4.7                                 | Cross-sectional dimension of certain cords  | NA     |
| 5.4.8                                 | Self-retracting cords   | NA     |
| 5.4.9 & 7.11 & 7.23                   | Toys attached to or intended to be strung across a cradle, cot or perambulator          | NA     |
| 5.5 & 7.12                            | Liquid filled toys  | NA     |
| 5.6                                   | Electrically driven toys  | NA     |
| 5.7                                   | Glass and porcelain   | NA     |
| 5.8                                   | Shape and size  | NA     |
| 5.9 & 7.17                            | Monofilament fibres   | NA     |
| 5.10                                  | Small balls   | NA     |
| 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 & 7.24                           | Sledges with cords for pulling  | NA     |
| 6                                     | Packaging   | NA     |
| <b>WARNINGS, INSTRUCTIONS FOR USE</b> |   |        |
| 7.1                                   | General   | NT     |
| 7.2                                   | Toys not intended for children under 36 months  | NT     |
| 7.5                                   | Functional toys   | NT     |

*M = Meet   NM = Not Meet   N/A = Not Applicable   R = Refer to Comment Section   NT=Not Test*



**RESULTS:**

**REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 1**

| Sub-clause | Test Method                             | Sub-clause | Test Method                                   | Sub-clause | Test Method  | Sub-clause | Test Method                                 |
|------------|---|------------|---|------------|--|------------|---|
| 4.3        | 8.25.1                                  | 4.15.1.5   | 8.26.1  | 4.22       | 8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.32                     | 5.4.5      | 8.40  |
| 4.5        | 8.5, 8.7, 8.11, 8.12                    | 4.15.1.8   | 8.29  | 4.23       | 8.2, 8.3, 8.4.2.1, 8.4.2.2, 8.5, 8.6, 8.7, 8.8, 8.34, 8.35 | 5.4.6      | 8.40  |
| 4.6        | 8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.14  | 4.15.2.4   | 8.26.2  | 4.24       | 8.37   | 5.4.7      | 8.20  |
| 4.7        | 8.11                                    | 4.15.3     | 8.21, 8.23.1                                  | 4.25       | 8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32.1                   | 5.7.8      | 8.39  |
| 4.8        | 8.12, 8.13                              | 4.15.4     | 8.21, 8.23.1                                  | 4.26       | 8.38   | 5.5        | 8.15  |
| 4.9        | 8.4.2.3, 8.11, 8.12                     | 4.15.5     | 8.11, 8.12, 8.21, 8.22, 8.26.3, 8.27          | 4.27.1     | 8.43   | 5.6        | 8.29  |
| 4.10.1     | 8.18.2, 8.18.3                          | 4.16       | 8.23.2  | 4.27.2     | 8.4.2.6  | 5.8        | 8.16  |
| 4.10.2     | 8.5, 8.6, 8.7, 8.11, 8.12               | 4.17.1     | 8.3, 8.4.2.1, 8.7, 8.8, 8.42                  | 4.27.3     | 8.4.2.6  | 5.10       | 8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9, 8.32 |
| 4.11       | 8.2, 8.3, 8.4.2.1, 8.9, 8.17            | 4.17.2     | 8.3, 8.4.2.4, 8.7, 8.8, 8.32.1, 8.43, 8.44    | 5.1        | 8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.9, 8.11, 8.12          | 5.11       | 8.33  |
| 4.13       | 8.19                                    | 4.17.3     | 8.3, 8.4.2.3, 8.4.2.5, 8.11, 8.12, 8.24, 8.42 | 5.3        | 8.4.2.1, 8.25  | 5.12       | 8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9,      |
| 4.14.1     | 8.31.1, 8.31.2                          | 4.17.4     | 8.3, 8.4.2.3, 8.4.2.5, 8.11, 8.12, 8.24, 8.42 | 5.4.1      | 8.40   | 5.13       | 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32           |
| 4.14.2     | 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.11, 8.12 | 4.18       | 8.2, 8.3, 8.4.2.1                             | 5.4.2      | 8.38, 8.40, 8.41   | 5.14       | 8.38  |
| 4.15.1.3   | 8.11, 8.12, 8.21, 8.22                  | 4.20       | 8.28  | 5.4.3      | 8.38, 8.40, 8.41   | 6          | 8.3, 8.4.2.1, 8.25.1, 8.32.1                |
| 4.15.1.4   | 8.23.1                                  | 4.21       | 8.30  | 5.4.4      | 8.36, 8.38   |            |   |



**RESULTS:**

**FLAMMABILITY (EN 71 PART 2: 2020)**

| Subclause | Requirement   | Result |
|-----------|---|--------|
| 4.1       | Cellulose nitrate   | NP     |
| 4.1       | Highly flammable solids   | NP     |
| 4.1       | Surface flash on a piled surface  | NA     |
| *4.1      | Flammable gases   | NA     |
| *4.1      | Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels | NA     |
| 4.2       | Toys to be worn on the head   | NA     |
| 4.3       | Toy disguise costumes and toys intended to be worn by child in play                         | NA     |
| 4.3       | warning on product and packaging (10 - 30 mm/s)   | NA     |
| 4.4       | Toys intended to be entered by child  | NA     |
| 4.4       | warning on product and packaging (10 – 30 mm/s)   | NA     |
| 4.5       | Soft-filled toys  | NA     |

**REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2**

| Sub-clause | Test Method |
|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| 4.2.2      | 5.2         | 4.2.4      | 5.3         | 4.3        | 5.4         | 4.5        | 5.5         |
| 4.2.3      | 5.3         | 4.2.5      | 5.4         | 4.4        | 5.4         | -          | -           |

\* Note: Subclause indicated with \* are not accredited.

*M = Meet    NM = Not Meet    N/A = Not Applicable    R = Refer to Comment Section*  
*P = Present    NP = Not Present*



**RESULTS:**

**APPROPRIATE AGE GRADE DETERMINATION**

|   |   |
|---|---|
| The Appropriate Age Grade is determined with reference to the Age Determination Guidelines of the Consumer Product Safety Commission (CPSC); and the ASTM F963-17, "Standard Consumer Safety Specification on Toy Safety". Annex A1 |   |
| Note :  | The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.   |
| Note :  | If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing. |

**USE AND ABUSE TESTS**

| The samples were undergo the tests in accordance with section 8.6 through 8.16, whichever is applicable |                 |                    |
|---|-----------------|--------------------|
| Test  | Test Parameters | Standard Reference |
| Impact Test   | 4 x 3 ft        | 1500.53(b)         |
| Torque Test   | 4 in-lbs        | 1500.53(e)         |
| Tension Test  | 15 lbs          | 1500.53(f )        |
| Compression Test  | 30 lbs          | 1500.53(g)         |



**RESULTS:**

**PHYSICAL AND MECHANICAL HAZARDS (ASTM F963-17)**

| Section | Requirement  | Result |
|---------|--|--------|
| 4.1     | Material Quality   | M      |
| 4.3.7   | Stuffing Materials   | N/A    |
| 4.5     | Sound-Producing Toys   | N/A    |
| 4.6     | Small Objects  | N/A    |
| 4.7     | Accessible Edges   | M      |
| 4.8     | Projections  | N/A    |
| 4.9     | Accessible Points  | M      |
| 4.10    | Wires and Rods   | N/A    |
| 4.11    | Nails and Fasteners  | N/A    |
| 4.12    | Plastic Film   | N/A    |
| 4.13    | Folding Mechanisms and Hinges  | N/A    |
| 4.14    | Cords, Straps and Elastics   | N/A    |
| 4.15    | Stability and Over-Load Requirements   | N/A    |
| 4.16    | Confined Spaces  | N/A    |
| 4.17    | Wheels, Tires, and Axles   | N/A    |
| 4.18    | Holes, Clearances and Accessibility of Mechanisms  | N/A    |
| 4.19    | Simulated Protective Devices   | N/A    |
| 4.20    | Pacifiers  | N/A    |
| 4.21    | Projectile Toys  | N/A    |
| 4.22    | Teethers and Teething Toys   | N/A    |
| 4.23    | Rattles  | N/A    |
| 4.24    | Squeeze Toys   | N/A    |
| 4.25    | Battery-Operated Toys<br>(exclude Section 4.25.10 Battery-powered ride-on toys & Section 4.25.11 Toys that Contain Secondary Cells or Secondary Batteries) | N/A    |
| 4.26    | Toys Intended to be Attached to a Crib or Playpen  | N/A    |
| 4.27    | Stuffed and Beanbag-Type Toys  | N/A    |
| 4.30    | Toy Gun Marking  | N/A    |
| 4.32    | Certain Toys with Nearly Spherical Ends  | N/A    |
| 4.34    | Small Balls  | N/A    |
| 4.35    | Pompoms  | N/A    |
| 4.36    | Hemispheric-Shaped Objects   | N/A    |
| 4.37    | Yo Yo Elastic Tether Toys  | N/A    |
| 4.38    | Magnets  | N/A    |
| 4.39    | Jaw Entrapment in Handles and Steering Wheels  | N/A    |
| 4.40    | Expanding Materials  | N/A    |

M = Meet    NM = Not Meet    N/A = Not Applicable    R = Refer to Comment Section    NT=Not Test



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**RESULTS:**

**FLAMMABILITY (16 CFR SECTION 1500.3(c)6)(vi))**

| Requirement   | Test Method Reference | Findings  |
|---|-----------------------|---|
| Burn rate no greater than 0.1 of an inch per second | 16 CFR 1500.44        | Most rapid burn rate less than 0.1 of an inch per second. |



**RESULTS:**

**Migration of Certain Elements, EN 71-3:2019+A1:2021**

Test Method: European Standard EN 71-3:2019+A1:2021 Section 8.

Class: Category III - Scraped off toy material

| Analyte                     | Requirement (mg/kg) | Result (mg/kg) |      |      |   |   |
|-----------------------------|---------------------|----------------|------|------|---|---|
|                             |                     | Test Item(s)   |      |      |   |   |
|                             | Category III        | I001           | I002 | I003 | - | - |
| Aluminum (Al)               | 28130               | ND             | ND   | 150  | - | - |
| Arsenic (As)                | 47                  | ND             | ND   | ND   | - | - |
| Boron (B)                   | 15000               | ND             | ND   | 3    | - | - |
| Barium (Ba)                 | 18750               | ND             | ND   | 9    | - | - |
| Cadmium (Cd)                | 17                  | ND             | ND   | ND   | - | - |
| Cobalt (Co)                 | 130                 | ND             | ND   | ND   | - | - |
| Chromium III (Cr III)       | 460                 | ND             | ND   | 0.22 | - | - |
| Chromium VI (Cr VI)         | 0.053               | ND             | ND   | ND#  | - | - |
| Copper (Cu)                 | 7700                | ND             | ND   | ND   | - | - |
| Mercury (Hg)                | 94                  | ND             | ND   | ND   | - | - |
| Manganese (Mn)              | 15000               | ND             | ND   | 27   | - | - |
| Nickel (Ni)                 | 930                 | ND             | ND   | ND   | - | - |
| Lead (Pb)                   | 23                  | ND             | ND   | ND   | - | - |
| Antimony (Sb)               | 560                 | ND             | ND   | ND   | - | - |
| Selenium (Se)               | 460                 | ND             | ND   | ND   | - | - |
| Tin (Sn)                    | 180000              | ND             | ND   | ND   | - | - |
| Organic tin                 | 12                  | ND             | ND   | ND   | - | - |
| Strontium (Sr)              | 56000               | ND             | ND   | 40   | - | - |
| Zinc (Zn)                   | 46000               | ND             | ND   | 8    | - | - |
| Mass of trace amount (gram) |                     | -              | -    | -    | - | - |
| Conclusion                  |                     | PASS           | PASS | PASS | - | - |



**RESULTS:**

mg/kg = milligrams per kilogram (ppm=parts per million)

Organic tin = migration of total organic tin is expressed as tributyltin cation content in mg/kg

# = Verified results (see note)

ND = Not detected

Detection Limit ( mg/kg ) :

Category III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.025 ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ;  
Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

**Remark:**

- Results of Cr III and Cr VI were reported as sum of soluble Chromium content unless specified.
- Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.
- The pH measured shall be reported after migration if it was outside the range of 1.1 to 1.3.

**Note:**

If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method

- Chromium VI: EN 71-3:2019+A1:2021, Annex F by Ion-chromatography with ICP-MS detector analysis.
- Organic tin: EN 71-3:2019+A1:2021, Annex G by Gas Chromatography-Mass Spectroscopy analysis.



**RESULTS:**

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**Total Cadmium Content – European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII, Item no. 23**

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Test Method : BS EN 1122: 2001, Method B or Acid digestion followed by Atomic Absorption Spectrophotometry or Inductively Coupled Plasma Spectrometry.

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|                           |          |                                       |
|---------------------------|----------|---------------------------------------|
| Maximum Allowable Limit : | Type I   | Paints on Painted Article: 1000 mg/kg |
|                           | Type II  | Plastics: 100 mg/kg                   |
|                           | Type III | Metals in Jewellery: 100 mg/kg        |
|                           | Type IV  | Wet Paints: 100 mg/kg                 |

| Test Item(s)   | Type | Result             | Unit  | Conclusion |
|----------------|------|--------------------|-------|------------|
|                |      | Total Cadmium (Cd) |       |            |
| I001+I002      | II   | ND                 | mg/kg | PASS       |
| I004+I005      | II   | ND                 | mg/kg | PASS       |
| I006+I007+I009 | II   | ND                 | mg/kg | PASS       |
| I008           | I    | ND                 | mg/kg | PASS       |

Note / key:

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit: 10 mg/kg



**RESULTS:**

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**Total Lead Content in Substrate – ASTM International Standard ASTM F963-17, Section 4.3.5.2(2)(a)**

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Test Method : ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

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|                           |           |
|---------------------------|-----------|
| Maximum Allowable Limit : | 100 mg/kg |
|---------------------------|-----------|

| Test Item(s) | Result          | Unit  | Conclusion |
|--------------|-----------------|-------|------------|
|              | Total Lead (Pb) |       |            |
| I001+I002    | ND              | mg/kg | PASS       |

Note / key:

- ND = Not detected
- mg/kg = milligram(s) per kilogram
- Detection Limit (mg/kg) : 10



**RESULTS:**

**Soluble Heavy Metals Content in Substrate –ASTM F963-17, Section 4.3.5.2(2)(b)**

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.5 (Excluding 8.3.5.5(3))

| Analyte                    | As | Ba   | Cd | Cr | Hg | Pb | Sb | Se  |
|----------------------------|----|------|----|----|----|----|----|-----|
| Max. Limit Type I (mg/kg)  | 25 | 1000 | 75 | 60 | 60 | 90 | 60 | 500 |
| Max. Limit Type II (mg/kg) | 25 | 250  | 50 | 25 | 25 | 90 | 60 | 500 |
| Analytical Correction (%)  | 60 | 30   | 30 | 30 | 50 | 30 | 60 | 60  |

| Analyte                                    | As             | Ba | Cd | Cr | Hg | Pb | Sb | Se | Mass of Trace Amount | Conclusion |
|--|----------------|----|----|----|----|----|----|----|----------------------|------------|
| Test Item(s)                               | Result (mg/kg) |    |    |    |    |    |    |    | (g)                  |            |
| Type I: Substrate other than modeling clay |                |    |    |    |    |    |    |    |                      |            |
| I001                                       | ND             | ND | ND | ND | ND | ND | ND | ND | -                    | PASS       |
| I002                                       | ND             | ND | ND | ND | ND | ND | ND | ND | -                    | PASS       |

Note / key:

As = Arsenic                      Ba = Barium                      Cd = Cadmium                      Cr = Chromium  
 Hg = Mercury                      Pb = Lead                      Sb = Antimony                      Se = Selenium  
 ND = Not detected                      g = gram(s)                      % = percent  
 mg/kg = milligram(s) per kilogram (ppm=parts per million)  
 Detection Limit (mg/kg) :  
 For Type I – As : 2.5; Ba : 100; Cd : 7.5; Each (Cr, Hg, & Sb) : 6.0; Pb : 9.0; Se : 50  
 For Type II – Each (As, Cr & Hg) : 2.5; Ba : 25; Cd : 5.0; Sb : 6.0; Pb : 9.0; Se : 50

Remark:

- Textiles (natural or synthetic) are exempted for lead content requirement according to clarification of Toy Industry Association for ASTM F963-17. The lead content analysis result of corresponding material herein is for client's reference only.



**RESULTS:**

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**Total Lead Content in Children Products (California Proposition 65 settlements of Alameda Superior court RG 07356892)**

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Test Method : EPA 3050B (Mod) / EPA 3051A (Mod)

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|                          |         |                                      |
|--------------------------|---------|--------------------------------------|
| Maximum Allowable Limit: | Type I  | Paint and surface coatings: 90 mg/kg |
|                          | Type II | Substrate materials: 100 mg/kg       |

| Test Item(s) | Type | Result          | Unit  | Conclusion |
|--------------|------|-----------------|-------|------------|
|              |      | Total Lead (Pb) |       |            |
| I001+I002    | II   | ND              | mg/kg | PASS       |

Note / key:

- ND = Not detected
- mg/kg = milligram(s) per kilogram
- Detection Limit (mg/kg) : 10



**RESULTS:**

**BBP/DBP/DEHP/DIBP Contents in Toys and Childcare Articles – European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 51**

Test Method : With referenced to CPSC-CH-C1001-09.3/ CPSC-CH-C1001-09.4 , sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer

| Test Parameter: | BBP                          | DBP | DEHP | DIBP | SUM | -          |
|-----------------|------------------------------|-----|------|------|-----|------------|
| Limit (%):      | 0.1 (Sum of Four phthalates) |     |      |      |     | -          |
| Test Item(s)    | Result (%)                   |     |      |      |     | Conclusion |
| I001+I002       | ND                           | ND  | ND   | ND   | ND  | PASS       |
| I004+I005       | ND                           | ND  | ND   | ND   | ND  | PASS       |
| I006+I007+I009  | ND                           | ND  | ND   | ND   | ND  | PASS       |
| I008            | ND                           | ND  | ND   | ND   | ND  | PASS       |

Note / key:

BBP = Butyl benzyl phthalate

DEHP = Di(2-ethylhexyl) phthalate

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (%) : Each 0.005

DBP = Dibutyl phthalate

DIBP= Diisobutyl phthalate

% = percent

10000 mg/kg = 1 %



**RESULTS:**

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**DNOP/DINP/DIDP Contents in Toys and Childcare Articles which can be placed in the Mouth by the Children – European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 52**

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Test Method : With referenced to CPSC-CH-C1001-09.3/ CPSC-CH-C1001-09.4 , sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer

| Test Parameter: | DIDP                          | DINP | DNOP | SUM | -          |
|-----------------|-------------------------------|------|------|-----|------------|
| Limit (%):      | 0.1 (Sum of three phthalates) |      |      |     | -          |
| Test Item(s)    | Result (%)                    |      |      |     | Conclusion |
| I001+I002       | ND                            | ND   | ND   | ND  | PASS       |

Note / key:

DNOP = Di-n-octyl phthalate      DINP = Di-iso-nonyl phthalate      DIDP = Di-iso-decyl phthalate  
 ND = Not detected                      % = percent                              10000 mg/kg = 1 %  
 mg/kg = milligram(s) per kilogram  
 Detection Limit (%) : Each 0.005



**RESULTS:**

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**BBP/DBP/DEHP/DnHP/DIDP Phthalates Content Requirements in Toys, Child Care Articles and Watches – California Proposition 65 settlements of County of Sacramento case number 07AS04683, and the Alameda Superior Court case numbers BG07350969, RG08367601, RG07351032 and RG08378050**

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Test Method : With reference to U. S. CPSC-CH-C1001-09.4 (January 17, 2018)

|                 |            |     |      |      |      |            |
|-----------------|------------|-----|------|------|------|------------|
| Test Parameter: | BBP        | DBP | DEHP | DnHP | DIDP | -          |
| Limit (%):      | 0.1        | 0.1 | 0.1  | 0.1  | 0.1  | -          |
| Test Item(s)    | Result (%) |     |      |      |      | Conclusion |
| I001+I002       | ND         | ND  | ND   | ND   | ND   | PASS       |

Note / key:

BBP = Butyl benzyl phthalate      DBP = Dibutyl phthalate      DEHP = Di(2-ethylhexyl) phthalate  
 DnHP = Di-n-hexyl phthalate      DIDP = Di-iso-decyl phthalate  
 ND = Not detected      % = percent      10000 mg/kg = 1 %  
 mg/kg = milligram(s) per kilogram  
 Detection Limit (%) : Each 0.005



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**RESULTS:**



END OF REPORT