



CONSUMER PRODUCTS SERVICES DIVISION

## GUANGDONG LUDDY INTERACTIVE ENTERTAINMENT LTD.

**Review Report:** (9022)073-0244  
**Date Received:** MAR 13, 2022

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GUANGDONG LUDDY INTERACTIVE ENTERTAINMENT LTD.  
ROOM 101, 1ST BUILDING, NO.201, JINYANG ROAD,  
ZHANGMUTOU TOWN, DONGGUAN CITY,  
GUANGDONG, CHINA

|                             |                            |                         |                      |
|-----------------------------|----------------------------|-------------------------|----------------------|
| Sample Description:         | TODDLER TRICYCLE 3 IN 1    | Sample Size:            | 1 PC                 |
| Vendor:                     | N/A                        | Style No(s):            | LD-1033-R/LD-1033-BL |
| Manufacturer:               | N/A                        | SKN/SKU No.:            | N/A                  |
| Buyer:                      | N/A                        | PO No.:                 | N/A                  |
| Labeled Age Grade:          | 10-36 MONTHS               | Ref #:                  | N/A                  |
| Appropriate Age Grade:      | NOT REQUESTED              | Assortment No.:         | N/A                  |
| Client Specified Age Grade: | 10-36 MONTHS               | Country of Destination: | N/A                  |
| Tested Age Grade:           | OVER 18MONTHS TO 36 MONTHS | Color:                  | N/A                  |
| Country of Origin:          | N/A                        | Test Finished Date:     | MAR 14, 2022         |
| UPC Code:                   | N/A                        |                         |                      |
| Test Start Date:            | MAR 13, 2022               |                         |                      |

### EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- The Physical & Mechanical properties requirement of ASTM F963-17 Standard Consumer Safety Specification for Toy Safety.\*
- The Tracking Labels for Children's Products requirement of The tracking label requirement of the Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103.\*
- The Flammability properties requirement of ASTM F963-17 Standard Consumer Safety Specification for Toy Safety.\*
- The Mechanical and Physical Properties requirement of European Standard on Safety of Toys- EN71-1:2014+A1:2018 Mechanical and physical properties.\*
- Labeling requirements of "CE marking, manufacturer/importer name and address, and product identification" under "Directive 2009/48/EC Safety of Toy".\*
- The Flammability Properties requirement of European Standard on Safety of Toys- EN 71-2:2020 Flammability.
- The Mechanical and Physical Properties requirement of European Standard on Safety of Toys-BS EN71-1:2014+A1:2018 Mechanical and physical properties.\*
- UKCA Marking and Company name and UK address Labeling.\*
- The Flammability Properties requirement of European Standard on Safety of Toys-BS EN 71-2:2020 Flammability.\*
- The Heavy Elements content requirement of ASTM F963-17 (Clause 4.3.5) Standard Consumer Safety Specification for Toy Safety.\*
- The Migration of Certain Elements content requirement of European Standard on Safety of Toys EN 71-3:2019+A1:2021.\*
- The Migration of Certain Elements content requirement of Toys (Safety) Regulations 2011.\*
- The Lead content requirement of Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment Title 1 section 101- Children's products containing lead; lead paint rule.\*
- The Lead content requirement of California "Proposition 65".\*
- Total Lead content requirement of Item 63 of Annex XVII of REACH Regulation (EC) 1907/2006.\*
- The Cadmium content requirement of Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006.\*
- The Cadmium content requirement of California "Proposition 65".\*

**Bureau Veritas Consumer Products Services, Inc. (Shanghai),  
Qingdao Branch**  
No.3 building, GNDC Tech Base, No.192 Zhuzhou Road,  
Laoshan District, Qingdao, China,266101  
Tel: 86-532-58827999 Fax: 86-532-88706839  
Email: [bvcpnsinfor.qd@cn.bureauveritas.com](mailto:bvcpnsinfor.qd@cn.bureauveritas.com)  
Website: [cps.bureauveritas.com](http://cps.bureauveritas.com)

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**EXECUTIVE SUMMARY:**

-The DEHP、DBP、BBP、DINP、DIBP、DPENP、DHEXP and DCHP content in the submitted sample(s) in accordance with Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment &16 CFR Part 1307-Prohibition of Children Toys and Child Care Articles Containing Specified Phthalates, to determine the DIDP content in the submitted sample(s) in accordance with California "Proposition 65".\*  
- the DEHP、DBP、BBP、DIBP、DINP、DIDP and DNOP content requirement of Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006.\*

**BVCPS (SHANGHAI)-QINGDAO BRANCH CONTACT INFORMATION FOR THIS REPORT**

**Technical enquiry:**

Gaily Gong

86-532-58827971

[gaily.gong@cn.bureauveritas.com](mailto:gaily.gong@cn.bureauveritas.com)

**General enquiry and invoicing:**

Chloe Wang

86-532-58827923

[chloe.wang@cn.bureauveritas.com](mailto:chloe.wang@cn.bureauveritas.com)

Mandy Zhang

86-532-58827932

[mandy.zhang@cn.bureauveritas.com](mailto:mandy.zhang@cn.bureauveritas.com)

Mandy Zhang  
Qingdao TOY Reporting Supervisor

**Bureau Veritas**  
Consumer Product Services (Shanghai) - Qingdao Branch



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**RESULTS:**

**Specimen Description:**

| No. | Test sample(s) name     |
|-----|-------------------------|
| 1   | Toddler Tricycle 3 in 1 |

**Results:**

**(1)ASTM F963-17:Mechanical and physical hazards**

| Clause | Test request  | Result(s)                    | Verdict |
|--------|---|------------------------------|---------|
| 4.1    | Material quality (visual check on cleanliness)  | M                            | Pass    |
| 4.2    | Flammability  | M                            | Pass    |
| 4.3    | Toxicology  | Refer to<br>Chemical section | /       |
| 4.3.7  | Stuffing Materials  | NA                           | /       |
| 4.4    | Electrical/Thermal Energy   | NA                           | /       |
| 4.5    | Sound producing toys  | NA                           | /       |
| 4.6    | Small objects   | M                            | Pass    |
| 4.6.1  | Toys that are intended for children under 36 months of age                                      | M                            | Pass    |
| 4.6.2  | Mouth actuated toys   | NA                           | /       |
| 4.6.3  | Toys and games for 36 months to 72 months—Small part warning                                    | NA                           | /       |
| 4.7    | Accessible edges-Potentially hazardous sharp metal and glass edges are defined in 16CFR 1500.49 | M                            | Pass    |
| 4.8    | Projections (under 8 years of age)  | M                            | Pass    |
| 4.9    | Accessible points -Potentially hazardous sharp points are defined by 16CFR 1500.48              | M                            | Pass    |
| 4.10   | Wires or rods   | NA                           | /       |
| 4.11   | Nails and fasteners   | M                            | Pass    |
| 4.12   | Plastic film  | M                            | Pass    |
| 4.13   | Folding mechanisms and hinges   | NA                           | /       |
| 4.14   | Cords and elastics in toys  | NA                           | /       |
| 4.15   | Stability and over-load requirements  | M                            | Pass    |
| 4.16   | Confined spaces   | NA                           | /       |
| 4.17   | Wheels, tires, and axles (aged 96 months or less)   | M                            | Pass    |
| 4.18   | Holes, clearance, and accessibility of mechanisms   | M                            | Pass    |



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**RESULTS:**

| Clause | Test request                                      | Result(s)              | Verdict |
|--------|---|------------------------|---------|
| 4.19   | Simulated protective devices                      | NA                     | /       |
| 4.20   | Pacifiers (under 36 months of age)                | NA                     | /       |
| 4.21   | Projectile toys                                   | NA                     | /       |
| 4.22   | Teethers and teething toys                        | NA                     | /       |
| 4.23   | Rattles   | NA                     | /       |
| 4.24   | Squeeze toys (under age of 18 months)             | 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                     | /       |
| 4.31   | Balloons—safety labeling                          | NA                     | /       |
| 4.32   | Certain toys with nearly spherical ends           | NA                     | /       |
| 4.33   | Marbles (3 years of age or older)                 | NA                     | /       |
| 4.34   | Balls   | NA                     | /       |
| 4.35   | Pompoms (under 3 years of age)                    | 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      | Labeling Requirements                             |                        |         |
| 5.1    | Federal government requirements                   | NA                     | /       |
| 5.2    | Age grading labeling                              | Recorded: 10-36 months |         |
| 5.3    | Safety labeling requirements                      | NA                     | /       |



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**RESULTS:**

| Clause | Test request  | Result(s) | Verdict |
|--------|---|-----------|---------|
| 5.4    | Aquatic toys  | NA        | /       |
| 5.5    | Crib and playpen toys   | NA        | /       |
| 5.6    | Mobiles   | NA        | /       |
| 5.7    | Stroller and carriage toys  | NA        | /       |
| 5.8    | Toys intended to be assembled by an adult   | M         | Pass    |
| 5.9    | Simulated protective devices  | NA        | /       |
| 5.10   | Toys with functional sharp edges or points  | NA        | /       |
| 5.11   | Small objects, small balls, marbles and balloons.   | NA        | /       |
| 5.12   | Toys caps   | NA        | /       |
| 5.13   | Art materials   | NA        | /       |
| 5.14   | Electric toys   | NA        | /       |
| 5.15   | Battery-operated toys   | NA        | /       |
| 5.16   | Promotional Materials   | M         | Pass    |
| 5.17   | Magnets   | NA        | /       |
| 6.1    | Definition and Description  | M         | Pass    |
| 6.2    | Crib and playpen toys   | NA        | /       |
| 6.3    | Mobiles   | NA        | /       |
| 6.4    | Toys intended to be assembled by an adult   | M         | Pass    |
| 6.5    | Battery-operated toys   | NA        | /       |
| 6.6    | Battery-Powered Ride-on toys  | NA        | /       |
| 6.7    | Toys in contact with food   | NA        | /       |
| 7      | Producer's Markings   |           |         |
| 7.1    | Either a principal component of a toy or the package of a toy shall be marked with the name and address of the producer or the distributor. | M         | Pass    |
| 7.2    | Battery-powered ride-on toys  | NA        | /       |

**Note:**

1.M = Meet NA = Not Applicable



**RESULTS:**

**(2)CPSIA Tracking labels**

Test method: As per CPSIA 2008 sec. 103. Tracking labels for children's products.

Result:

| <b>Requirement</b>                        | <b>Result(s)</b> | <b>Verdict</b> |
|---|------------------|----------------|
| <b>On Packaging</b>                       |                  |                |
| Present on packaging                      | M                | Pass           |
| Permanent                                 | M                | Pass           |
| Manufacturer or private labeler           | M                | Pass           |
| Location of production (City and country) | M                | Pass           |
| Date of production (month and year)       | M                | Pass           |
| <b>On Product</b>                         |                  |                |
| Present on product                        | M                | Pass           |
| Permanent                                 | M                | Pass           |
| Location of production (City and country) | M                | Pass           |
| Date of production (month and year)       | M                | Pass           |
| Manufacturer or private labeler           | M                | Pass           |

**Note:**

1. M = Meet



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**RESULTS:**

**(3)ASTM F963-17:Flammability of materials other than textiles**

Test method: ASTM F963-17 Section 4.2

Method used: Federal Hazardous Substances Act (FHSA) 16 CFR 1500.44

Result:

| Sample(s) name          | Ignition point | Unit   | Result(s) |
|-------------------------|----------------|--------|-----------|
| Toddler Tricycle 3 in 1 | Top            | in/sec | ISE       |
|                         | End            | in/sec | ISE       |

- In accordance with the FHSA 16 CFR 1500.3 (C) (6) (vi), the burning rate should not be greater than 0.1 in/sec.

- ISE = Ignited but Self-Extinguished

**(4)Mechanical and physical properties – EN 71-1:2014+A1:2018**

| Clause | Test request   | Result(s) | Verdict |
|--------|--|-----------|---------|
| 4      | General requirements   |           |         |
| 4.1    | Material cleanliness   | M         | Pass    |
| 4.2    | Assembly   | M         | Pass    |
| 4.3    | Flexible plastic sheeting  | NA        | /       |
| 4.4    | Toy bags   | NA        | /       |
| 4.5    | Glass  | NA        | /       |
| 4.6    | Expanding materials  | NA        | /       |
| 4.7    | Edges  | M         | Pass    |
| 4.8    | Points and metallic wires  | M         | Pass    |
| 4.9    | Protruding parts   | M         | Pass    |
| 4.10   | Parts moving against each other                                    |           |         |
| 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   | Balloons   | NA        | /       |
| 4.13   | Cords of toy kites and other flying toys                           | NA        | /       |
| 4.14   | Enclosures   |           |         |



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**RESULTS:**

| Clause | Test request   | Result(s) | Verdict |
|--------|--|-----------|---------|
| 4.14.1 | Toy which a child can enter  | NA        | /       |
| 4.14.2 | Masks and helmets  | NA        | /       |
| 4.15   | Toys intended to bear the mass of a child  |           |         |
| 4.15.1 | Toys propelled by a child or by other means  | M         | Pass    |
| 4.15.2 | Toy bicycles   | M         | Pass    |
| 4.15.3 | Rocking horses and similar toys  | NA        | /       |
| 4.15.4 | Toys not propelled by child  | NA        | /       |
| 4.15.5 | Toy scooters   | NA        | /       |
| 4.16   | Heavy immobile toys  | NA        | /       |
| 4.17   | Projectile toys  |           |         |
| 4.17.1 | General  | NA        | /       |
| 4.17.2 | All projectiles  | NA        | /       |
| 4.17.3 | Projectile toys with stored energy   | NA        | /       |
| 4.17.4 | Certain projectile toys without stored energy  | 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 requirements   | M         | Pass    |
| 5.2    | Soft-filled toys and soft-filled parts of a toy                                      | NA        | /       |





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**RESULTS:**

| Clause | Test request   | Result(s) | Verdict |
|--------|--|-----------|---------|
| 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    | Toy comprising monofilament fiber  | 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   | Sledges with cords for pulling   | NA        | /       |
| 6      | Packaging  | M         | Pass    |
| 7      | Warning, marking and instructions for use                                |           |         |
| 7.1    | General  | M         | Pass    |
| 7.2    | Toys not intended for children under 36 months                           | NA        | /       |
| 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 | M         | Pass    |
| 7.11   | Toys intended to be strung across a cradle, cot, or perambulator         | NA        | /       |
| 7.12   | Liquid-filled teethingers  | NA        | /       |



**RESULTS:**

| Clause | Test request  | Result(s) | Verdict |
|--------|---|-----------|---------|
| 7.13   | Percussion caps specifically designed for use in toys                                     | NA        | /       |
| 7.14   | Acoustics   | NA        | /       |
| 7.15   | Toy bicycles  | M         | Pass    |
| 7.16   | Toys intended to bear the mass of a child   | M         | Pass    |
| 7.17   | Toys comprising monofilament fibers   | NA        | /       |
| 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        | /       |

**Note:**

1. M = Meet NA = Not Applicable

**(5)2009/48/EC general labeling requirement**

| Requirement                            | Result(s) | Verdict |
|--|-----------|---------|
| CE Marking                             | M         | Pass    |
| Manufacturer/importer name and address | M         | Pass    |
| Product identification                 | M         | Pass    |

**Note:**

- 1.M = Meet



**RESULTS:**

**(6) Flammability – EN 71-2:2020**

| Clause | Test request  | Result(s) | Verdict |
|--------|---|-----------|---------|
| 4      | Requirement   |           |         |
| 4.1    | Cellulose nitrate   | M         | Pass    |
| 4.1    | Highly flammable solids   | M         | Pass    |
| 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        | /       |

**Note:**

1. M = Meet NA = Not Applicable
2. EN 71-2:2020 is not included in CNAS Accreditation scope.



**RESULTS:**

**(7) Mechanical and physical properties – BS EN 71-1:2014+A1:2018**

| Clause | Test request   | Result(s) | Verdict |
|--------|--|-----------|---------|
| 4      | General requirements   |           |         |
| 4.1    | Material cleanliness   | M         | Pass    |
| 4.2    | Assembly   | M         | Pass    |
| 4.3    | Flexible plastic sheeting  | NA        | /       |
| 4.4    | Toy bags   | NA        | /       |
| 4.5    | Glass  | NA        | /       |
| 4.6    | Expanding materials  | NA        | /       |
| 4.7    | Edges  | M         | Pass    |
| 4.8    | Points and metallic wires  | M         | Pass    |
| 4.9    | Protruding parts   | M         | Pass    |
| 4.10   | Parts moving against each other                                    |           |         |
| 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   | Balloons   | NA        | /       |
| 4.13   | Cords of toy kites and other flying toys                           | NA        | /       |
| 4.14   | Enclosures   |           |         |
| 4.14.1 | Toy which a child can enter  | NA        | /       |
| 4.14.2 | Masks and helmets  | NA        | /       |
| 4.15   | Toys intended to bear the mass of a child                          |           |         |
| 4.15.1 | Toys propelled by a child or by other means                        | M         | Pass    |
| 4.15.2 | Toy bicycles   | M         | Pass    |
| 4.15.3 | Rocking horses and similar toys                                    | NA        | /       |
| 4.15.4 | Toys not propelled by child  | NA        | /       |



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**RESULTS:**

| Clause | Test request   | Result(s) | Verdict |
|--------|--|-----------|---------|
| 4.15.5 | Toy scooters   | NA        | /       |
| 4.16   | Heavy immobile toys  | NA        | /       |
| 4.17   | Projectile toys  |           |         |
| 4.17.1 | General  | NA        | /       |
| 4.17.2 | All projectiles  | NA        | /       |
| 4.17.3 | Projectile toys with stored energy   | NA        | /       |
| 4.17.4 | Certain projectile toys without stored energy  | 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 requirements   | M         | Pass    |
| 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    | Toy comprising monofilament fiber  | NA        | /       |



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**RESULTS:**

| Clause | Test request   | Result(s) | Verdict |
|--------|--|-----------|---------|
| 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   | Sledges with cords for pulling   | NA        | /       |
| 6      | Packaging  | M         | Pass    |
| 7      | Warning, marking and instructions for use                                |           |         |
| 7.1    | General  | M         | Pass    |
| 7.2    | Toys not intended for children under 36 months                           | NA        | /       |
| 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 | M         | Pass    |
| 7.11   | Toys 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   | M         | Pass    |
| 7.16   | Toys intended to bear the mass of a child                                | M         | Pass    |
| 7.17   | Toys comprising monofilament fibers                                      | NA        | /       |
| 7.18   | Toy scooters   | NA        | /       |
| 7.19   | Rocking horses and similar toys  | NA        | /       |



**RESULTS:**

| Clause | Test request  | Result(s) | Verdict |
|--------|---|-----------|---------|
| 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        | /       |

**Note:**

1. M = Meet NA = Not Applicable
2. BS EN 71-1:2014+A1:2018 is not included in CNAS Accreditation scope.

**(8) UKCA Marking and Company name and UK address Labeling**

| Requirement                 | Result(s) | Verdict |
|-----------------------------|-----------|---------|
| UKCA Marking                | M         | Pass    |
| Company name and UK address | M         | Pass    |

**Note:**

M = Meet



**RESULTS:**

**(9) Flammability – BS EN 71-2:2020**

| Clause | Test request  | Result(s) | Verdict |
|--------|---|-----------|---------|
| 4      | Requirement   |           |         |
| 4.1    | Cellulose nitrate   | M         | Pass    |
| 4.1    | Highly flammable solids   | M         | Pass    |
| 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        | /       |

**Note:**

1. M = Meet NA = Not Applicable
2. BS EN 71-2:2020 is not included in CNAS Accreditation scope.





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**RESULTS:**

**Specimen Description:**

| No. | Test part(s) name                                   |
|-----|---|
| 1   | Blue soft plastic, handle                           |
| 2   | Black plastic, support                              |
| 3   | White plastic, stopper                              |
| 4   | Blue coating, support                               |
| 5   | Silvery metal, support                              |
| 6   | Silvery metal tube, fixation                        |
| 7   | Black plated silvery metal, support screw           |
| 8   | Laminated white printed transparent plastic sticker |
| 9   | Black/red printed white sticker                     |
| 10  | White synthetic leather, cushion                    |
| 11  | Black plastic, cushion                              |
| 12  | Black plated silvery metal, cushion screw           |
| 13  | Black plated silvery metal, adjusting ring          |
| 14  | Black plated silvery metal, hexangular screw        |
| 15  | Black plated silvery metal, nut                     |
| 16  | Black plated silvery metal, screw(big)              |
| 17  | Black foam, wheel                                   |
| 18  | Black plastic, hubcap                               |
| 19  | Black plastic, pedal                                |
| 20  | Red soft plastic, handle                            |
| 21  | Red coating, support                                |
| 22  | Black plastic, screwdriver                          |
| 23  | Silvery blue metal, screwdriver                     |
| 24  | Iridescent plated metal, spanner                    |



**RESULTS:**

**(10) Heavy Elements content- ASTM F963-17 (Clause 4.3.5) Standard Consumer Safety Specification for Toy Safety.**

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

Test Method: CPSC-CH-E1001-08.3 & CPSC-CH-E1002-08.3

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 1         | 2    | 3    | 5    |
| Lead(Pb)     | mg/kg | 10  | 100   | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 6         | 7    | 8    | 9    |
| Lead(Pb)     | mg/kg | 10  | 100   | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 10        | 11   | 12   | 13   |
| Lead(Pb)     | mg/kg | 10  | 100   | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 14        | 15   | 16   | 17   |
| Lead(Pb)     | mg/kg | 10  | 100   | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |    |
|--------------|-------|-----|-------|-----------|------|------|----|
|              |       |     |       | 18        | 19   | 20   | 22 |
| Lead(Pb)     | mg/kg | 10  | 100   | N.D.      | N.D. | N.D. | 48 |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |
|--------------|-------|-----|-------|-----------|------|
|              |       |     |       | 23        | 24   |
| Lead(Pb)     | mg/kg | 10  | 100   | N.D.      | N.D. |

Total Lead (Pb) Content in Surface Coating

Test Method: CPSC-CH-E1003-09.1

Test Instrument: Atomic Absorption Spectrophotometer (AAS)



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**RESULTS:**

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |
|--------------|-------|-----|-------|-----------|------|
|              |       |     |       | 4         | 21   |
| Lead(Pb)     | mg/kg | 10  | 90    | N.D.      | N.D. |

Soluble elements Content

Test Method: ASTM F 963-17 Section 8.3.2 & ASTM F 963-17 Section 8.3.5

Test Instrument: Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|------|
|              |       |     |       | 1         | 2    | 3    | 4    | 8    |
| Cadmium(Cd)  | mg/kg | 5   | 75    | N.D.      | N.D. | N.D. | N.D. | N.D. |
| Lead(Pb)     | mg/kg | 5   | 90    | N.D.      | N.D. | N.D. | N.D. | N.D. |
| Chromium(Cr) | mg/kg | 5   | 60    | N.D.      | N.D. | N.D. | N.D. | N.D. |
| Mercury(Hg)  | mg/kg | 5   | 60    | N.D.      | N.D. | N.D. | N.D. | N.D. |
| Antimony(Sb) | mg/kg | 5   | 60    | N.D.      | N.D. | N.D. | N.D. | N.D. |
| Barium(Ba)   | mg/kg | 5   | 1000  | N.D.      | N.D. | N.D. | 62   | N.D. |
| Arsenic(As)  | mg/kg | 5   | 25    | N.D.      | N.D. | N.D. | N.D. | N.D. |
| Selenium(Se) | mg/kg | 5   | 500   | N.D.      | N.D. | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|------|
|              |       |     |       | 9         | 10   | 11   | 17   | 18   |
| Cadmium(Cd)  | mg/kg | 5   | 75    | N.D.      | N.D. | N.D. | N.D. | N.D. |
| Lead(Pb)     | mg/kg | 5   | 90    | N.D.      | N.D. | N.D. | N.D. | N.D. |
| Chromium(Cr) | mg/kg | 5   | 60    | N.D.      | N.D. | N.D. | N.D. | N.D. |
| Mercury(Hg)  | mg/kg | 5   | 60    | N.D.      | N.D. | N.D. | N.D. | N.D. |
| Antimony(Sb) | mg/kg | 5   | 60    | N.D.      | N.D. | N.D. | N.D. | N.D. |
| Barium(Ba)   | mg/kg | 5   | 1000  | N.D.      | N.D. | N.D. | N.D. | N.D. |
| Arsenic(As)  | mg/kg | 5   | 25    | N.D.      | N.D. | N.D. | N.D. | N.D. |
| Selenium(Se) | mg/kg | 5   | 500   | N.D.      | N.D. | N.D. | N.D. | N.D. |



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**RESULTS:**

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 19        | 20   | 21   | 22   |
| Cadmium(Cd)  | mg/kg | 5   | 75    | N.D.      | N.D. | N.D. | N.D. |
| Lead(Pb)     | mg/kg | 5   | 90    | N.D.      | N.D. | N.D. | N.D. |
| Chromium(Cr) | mg/kg | 5   | 60    | N.D.      | N.D. | N.D. | N.D. |
| Mercury(Hg)  | mg/kg | 5   | 60    | N.D.      | N.D. | N.D. | N.D. |
| Antimony(Sb) | mg/kg | 5   | 60    | N.D.      | N.D. | N.D. | N.D. |
| Barium(Ba)   | mg/kg | 5   | 1000  | N.D.      | N.D. | 34   | N.D. |
| Arsenic(As)  | mg/kg | 5   | 25    | N.D.      | N.D. | N.D. | N.D. |
| Selenium(Se) | mg/kg | 5   | 500   | N.D.      | N.D. | N.D. | N.D. |

**(11) Migration of Certain Elements- EN 71-3:2019+A1:2021**

Test Method: EN 71-3:2019+A1:2021

Test Instrument: Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES),  
Inductively Coupled Plasma Mass Spectrometer (ICP-MS)  
Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometer (LC-ICP-MS)

| Test item(s) | Unit  | MDL   | Limit (mg/kg)   |   |   | Result(s) |      |      |      |
|--------------|-------|-------|---|---|---|-----------|------|------|------|
|              |       |       | Category 1:<br>dry, brittle,<br>powder-like,<br>or pliable<br>materials | Category 2:<br>liquid, or sticky<br>materials | Category 3:<br>scraped-off<br>materials | 1         | 2    | 3    | 4    |
| Al           | mg/kg | 2     | 2250  | 560   | 28130                                   | N.D.      | N.D. | N.D. | N.D. |
| Sb           | mg/kg | 2     | 45  | 11.3  | 560                                     | N.D.      | N.D. | N.D. | N.D. |
| As           | mg/kg | 0.5   | 3.8   | 0.9   | 47                                      | N.D.      | N.D. | N.D. | N.D. |
| Ba           | mg/kg | 2     | 1500  | 375   | 18750                                   | N.D.      | N.D. | N.D. | 88   |
| B            | mg/kg | 2     | 1200  | 300   | 15000                                   | N.D.      | N.D. | N.D. | N.D. |
| Cd           | mg/kg | 0.2   | 1.3   | 0.3   | 17                                      | N.D.      | N.D. | N.D. | N.D. |
| Cr III       | mg/kg | 2     | 37.5  | 9.4   | 460                                     | N.D.      | N.D. | N.D. | N.D. |
| Cr VI        | mg/kg | 0.015 | 0.02  | 0.005   | 0.053                                   | N.D.      | N.D. | N.D. | N.D. |
| Co           | mg/kg | 2     | 10.5  | 2.6   | 130                                     | N.D.      | N.D. | N.D. | N.D. |



**RESULTS:**

| Test item(s) | Unit  | MDL | Limit (mg/kg)   |   |   | Result(s) |      |      |      |
|--------------|-------|-----|---|---|---|-----------|------|------|------|
|              |       |     | Category 1:<br>dry, brittle,<br>powder-like,<br>or pliable<br>materials | Category 2:<br>liquid, or sticky<br>materials | Category 3:<br>scraped-off<br>materials | 1         | 2    | 3    | 4    |
| Cu           | mg/kg | 2   | 622.5   | 156   | 7700                                    | N.D.      | N.D. | N.D. | N.D. |
| Pb           | mg/kg | 0.2 | 2.0   | 0.5   | 23                                      | N.D.      | N.D. | N.D. | N.D. |
| Mn           | mg/kg | 2   | 1200  | 300   | 15000                                   | N.D.      | N.D. | N.D. | N.D. |
| Hg           | mg/kg | 1   | 7.5   | 1.9   | 94                                      | N.D.      | N.D. | N.D. | N.D. |
| Ni           | mg/kg | 2   | 75  | 18.8  | 930                                     | N.D.      | N.D. | N.D. | N.D. |
| Se           | mg/kg | 2   | 37.5  | 9.4   | 460                                     | N.D.      | N.D. | N.D. | N.D. |
| Sr           | mg/kg | 2   | 4500  | 1125  | 56000                                   | N.D.      | N.D. | N.D. | 16   |
| Sn           | mg/kg | 2   | 15000   | 3750  | 180000                                  | N.D.      | N.D. | N.D. | N.D. |
| Organic tin  | mg/kg | 0.2 | 0.9   | 0.2   | 12                                      | N.D.      | N.D. | N.D. | N.D. |
| Zn           | mg/kg | 2   | 3750  | 938   | 46000                                   | N.D.      | N.D. | N.D. | 19   |



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**RESULTS:**

| Test item(s) | Unit  | MDL   | Limit (mg/kg)   |   |   | Result(s) |      |      |      |
|--------------|-------|-------|---|---|---|-----------|------|------|------|
|              |       |       | Category 1:<br>dry, brittle,<br>powder-like,<br>or pliable<br>materials | Category 2:<br>liquid, or sticky<br>materials | Category 3:<br>scraped-off<br>materials | 8         | 9    | 10   | 11   |
| Al           | mg/kg | 2     | 2250  | 560   | 28130                                   | N.D.      | N.D. | N.D. | N.D. |
| Sb           | mg/kg | 2     | 45  | 11.3  | 560                                     | N.D.      | N.D. | N.D. | N.D. |
| As           | mg/kg | 0.5   | 3.8   | 0.9   | 47                                      | N.D.      | N.D. | N.D. | N.D. |
| Ba           | mg/kg | 2     | 1500  | 375   | 18750                                   | N.D.      | N.D. | N.D. | N.D. |
| B            | mg/kg | 2     | 1200  | 300   | 15000                                   | N.D.      | N.D. | N.D. | N.D. |
| Cd           | mg/kg | 0.2   | 1.3   | 0.3   | 17                                      | N.D.      | N.D. | N.D. | N.D. |
| Cr III       | mg/kg | 2     | 37.5  | 9.4   | 460                                     | N.D.      | N.D. | N.D. | N.D. |
| Cr VI        | mg/kg | 0.015 | 0.02  | 0.005   | 0.053                                   | N.D.      | N.D. | N.D. | N.D. |
| Co           | mg/kg | 2     | 10.5  | 2.6   | 130                                     | N.D.      | N.D. | N.D. | N.D. |
| Cu           | mg/kg | 2     | 622.5   | 156   | 7700                                    | N.D.      | N.D. | N.D. | N.D. |
| Pb           | mg/kg | 0.2   | 2.0   | 0.5   | 23                                      | N.D.      | N.D. | N.D. | N.D. |
| Mn           | mg/kg | 2     | 1200  | 300   | 15000                                   | N.D.      | N.D. | N.D. | N.D. |
| Hg           | mg/kg | 1     | 7.5   | 1.9   | 94                                      | N.D.      | N.D. | N.D. | N.D. |
| Ni           | mg/kg | 2     | 75  | 18.8  | 930                                     | N.D.      | N.D. | N.D. | N.D. |
| Se           | mg/kg | 2     | 37.5  | 9.4   | 460                                     | N.D.      | N.D. | N.D. | N.D. |
| Sr           | mg/kg | 2     | 4500  | 1125  | 56000                                   | N.D.      | 29   | N.D. | N.D. |
| Sn           | mg/kg | 2     | 15000   | 3750  | 180000                                  | N.D.      | N.D. | N.D. | N.D. |
| Organic tin  | mg/kg | 0.2   | 0.9   | 0.2   | 12                                      | N.D.      | N.D. | N.D. | N.D. |
| Zn           | mg/kg | 2     | 3750  | 938   | 46000                                   | 25        | 19   | 26   | N.D. |



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**RESULTS:**

| Test item(s) | Unit  | MDL   | Limit (mg/kg)   |   |   | Result(s) |      |      |      |
|--------------|-------|-------|---|---|---|-----------|------|------|------|
|              |       |       | Category 1:<br>dry, brittle,<br>powder-like,<br>or pliable<br>materials | Category 2:<br>liquid, or sticky<br>materials | Category 3:<br>scraped-off<br>materials | 17        | 18   | 19   | 20   |
| Al           | mg/kg | 2     | 2250  | 560   | 28130                                   | N.D.      | N.D. | N.D. | N.D. |
| Sb           | mg/kg | 2     | 45  | 11.3  | 560                                     | N.D.      | N.D. | N.D. | N.D. |
| As           | mg/kg | 0.5   | 3.8   | 0.9   | 47                                      | N.D.      | N.D. | N.D. | N.D. |
| Ba           | mg/kg | 2     | 1500  | 375   | 18750                                   | N.D.      | N.D. | N.D. | N.D. |
| B            | mg/kg | 2     | 1200  | 300   | 15000                                   | N.D.      | N.D. | N.D. | N.D. |
| Cd           | mg/kg | 0.2   | 1.3   | 0.3   | 17                                      | N.D.      | N.D. | N.D. | N.D. |
| Cr III       | mg/kg | 2     | 37.5  | 9.4   | 460                                     | N.D.      | N.D. | N.D. | N.D. |
| Cr VI        | mg/kg | 0.015 | 0.02  | 0.005   | 0.053                                   | N.D.      | N.D. | N.D. | N.D. |
| Co           | mg/kg | 2     | 10.5  | 2.6   | 130                                     | N.D.      | N.D. | N.D. | N.D. |
| Cu           | mg/kg | 2     | 622.5   | 156   | 7700                                    | N.D.      | N.D. | N.D. | N.D. |
| Pb           | mg/kg | 0.2   | 2.0   | 0.5   | 23                                      | N.D.      | N.D. | N.D. | N.D. |
| Mn           | mg/kg | 2     | 1200  | 300   | 15000                                   | N.D.      | N.D. | N.D. | N.D. |
| Hg           | mg/kg | 1     | 7.5   | 1.9   | 94                                      | N.D.      | N.D. | N.D. | N.D. |
| Ni           | mg/kg | 2     | 75  | 18.8  | 930                                     | N.D.      | N.D. | N.D. | N.D. |
| Se           | mg/kg | 2     | 37.5  | 9.4   | 460                                     | N.D.      | N.D. | N.D. | N.D. |
| Sr           | mg/kg | 2     | 4500  | 1125  | 56000                                   | N.D.      | N.D. | N.D. | N.D. |
| Sn           | mg/kg | 2     | 15000   | 3750  | 180000                                  | N.D.      | N.D. | N.D. | N.D. |
| Organic tin  | mg/kg | 0.2   | 0.9   | 0.2   | 12                                      | N.D.      | N.D. | N.D. | N.D. |
| Zn           | mg/kg | 2     | 3750  | 938   | 46000                                   | 37        | N.D. | N.D. | N.D. |



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**RESULTS:**

| Test item(s) | Unit  | MDL   | Limit (mg/kg)   |   |   | Result(s) |      |
|--------------|-------|-------|---|---|---|-----------|------|
|              |       |       | Category 1:<br>dry, brittle,<br>powder-like,<br>or pliable<br>materials | Category 2:<br>liquid, or sticky<br>materials | Category 3:<br>scraped-off<br>materials | 21        | 22   |
| Al           | mg/kg | 2     | 2250  | 560   | 28130                                   | N.D.      | N.D. |
| Sb           | mg/kg | 2     | 45  | 11.3  | 560                                     | N.D.      | N.D. |
| As           | mg/kg | 0.5   | 3.8   | 0.9   | 47                                      | N.D.      | N.D. |
| Ba           | mg/kg | 2     | 1500  | 375   | 18750                                   | 49        | N.D. |
| B            | mg/kg | 2     | 1200  | 300   | 15000                                   | N.D.      | N.D. |
| Cd           | mg/kg | 0.2   | 1.3   | 0.3   | 17                                      | N.D.      | N.D. |
| Cr III       | mg/kg | 2     | 37.5  | 9.4   | 460                                     | N.D.      | N.D. |
| Cr VI        | mg/kg | 0.015 | 0.02  | 0.005   | 0.053                                   | N.D.      | N.D. |
| Co           | mg/kg | 2     | 10.5  | 2.6   | 130                                     | N.D.      | N.D. |
| Cu           | mg/kg | 2     | 622.5   | 156   | 7700                                    | N.D.      | N.D. |
| Pb           | mg/kg | 0.2   | 2.0   | 0.5   | 23                                      | N.D.      | N.D. |
| Mn           | mg/kg | 2     | 1200  | 300   | 15000                                   | N.D.      | N.D. |
| Hg           | mg/kg | 1     | 7.5   | 1.9   | 94                                      | N.D.      | N.D. |
| Ni           | mg/kg | 2     | 75  | 18.8  | 930                                     | N.D.      | N.D. |
| Se           | mg/kg | 2     | 37.5  | 9.4   | 460                                     | N.D.      | N.D. |
| Sr           | mg/kg | 2     | 4500  | 1125  | 56000                                   | N.D.      | N.D. |
| Sn           | mg/kg | 2     | 15000   | 3750  | 180000                                  | N.D.      | N.D. |
| Organic tin  | mg/kg | 0.2   | 0.9   | 0.2   | 12                                      | N.D.      | N.D. |
| Zn           | mg/kg | 2     | 3750  | 938   | 46000                                   | 144       | N.D. |

-The Migration content limit is Category 3.

- Migration of Certain Elements is not included in CNAS Accreditation scope.





**RESULTS:**

**Remark :**

1. The migration of organic tin is expressed as Tributyltin(TBT).
2. Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in EN 71-3:2019+A1:2021.
3. Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+A1:2021.

**(12) Migration of Certain Elements- Toys (Safety) Regulations 2011**

Test Method: BS EN 71-3:2019+A1:2021

Test Instrument: Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES),  
Inductively Coupled Plasma Mass Spectrometer (ICP-MS)  
Liquid Chromatography-Inductively Coupled Plasma Mass Spectrometer (LC-ICP-MS)

| Test item(s) | Unit  | MDL   | Limit (mg/kg)   |   |   | Result(s) |      |      |      |
|--------------|-------|-------|---|---|---|-----------|------|------|------|
|              |       |       | Category 1:<br>dry, brittle,<br>powder-like,<br>or pliable<br>materials | Category 2:<br>liquid, or sticky<br>materials | Category 3:<br>scraped-off<br>materials | 1         | 2    | 3    | 4    |
| Al           | mg/kg | 2     | 2250  | 560   | 28130                                   | N.D.      | N.D. | N.D. | N.D. |
| Sb           | mg/kg | 2     | 45  | 11.3  | 560                                     | N.D.      | N.D. | N.D. | N.D. |
| As           | mg/kg | 0.5   | 3.8   | 0.9   | 47                                      | N.D.      | N.D. | N.D. | N.D. |
| Ba           | mg/kg | 2     | 1500  | 375   | 18750                                   | N.D.      | N.D. | N.D. | 88   |
| B            | mg/kg | 2     | 1200  | 300   | 15000                                   | N.D.      | N.D. | N.D. | N.D. |
| Cd           | mg/kg | 0.2   | 1.3   | 0.3   | 17                                      | N.D.      | N.D. | N.D. | N.D. |
| Cr III       | mg/kg | 2     | 37.5  | 9.4   | 460                                     | N.D.      | N.D. | N.D. | N.D. |
| Cr VI        | mg/kg | 0.015 | 0.02  | 0.005   | 0.053                                   | N.D.      | N.D. | N.D. | N.D. |
| Co           | mg/kg | 2     | 10.5  | 2.6   | 130                                     | N.D.      | N.D. | N.D. | N.D. |
| Cu           | mg/kg | 2     | 622.5   | 156   | 7700                                    | N.D.      | N.D. | N.D. | N.D. |
| Pb           | mg/kg | 0.2   | 2.0   | 0.5   | 23                                      | N.D.      | N.D. | N.D. | N.D. |
| Mn           | mg/kg | 2     | 1200  | 300   | 15000                                   | N.D.      | N.D. | N.D. | N.D. |
| Hg           | mg/kg | 1     | 7.5   | 1.9   | 94                                      | N.D.      | N.D. | N.D. | N.D. |
| Ni           | mg/kg | 2     | 75  | 18.8  | 930                                     | N.D.      | N.D. | N.D. | N.D. |
| Se           | mg/kg | 2     | 37.5  | 9.4   | 460                                     | N.D.      | N.D. | N.D. | N.D. |
| Sr           | mg/kg | 2     | 4500  | 1125  | 56000                                   | N.D.      | N.D. | N.D. | 16   |



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**RESULTS:**

| Test item(s) | Unit  | MDL | Limit (mg/kg)   |   |   | Result(s) |      |      |      |
|--------------|-------|-----|---|---|---|-----------|------|------|------|
|              |       |     | Category 1:<br>dry, brittle,<br>powder-like,<br>or pliable<br>materials | Category 2:<br>liquid, or sticky<br>materials | Category 3:<br>scraped-off<br>materials | 1         | 2    | 3    | 4    |
| Sn           | mg/kg | 2   | 15000   | 3750  | 180000                                  | N.D.      | N.D. | N.D. | N.D. |
| Organic tin  | mg/kg | 0.2 | 0.9   | 0.2   | 12                                      | N.D.      | N.D. | N.D. | N.D. |
| Zn           | mg/kg | 2   | 3750  | 938   | 46000                                   | N.D.      | N.D. | N.D. | 19   |

| Test item(s) | Unit  | MDL   | Limit (mg/kg)   |   |   | Result(s) |      |      |      |
|--------------|-------|-------|---|---|---|-----------|------|------|------|
|              |       |       | Category 1:<br>dry, brittle,<br>powder-like,<br>or pliable<br>materials | Category 2:<br>liquid, or sticky<br>materials | Category 3:<br>scraped-off<br>materials | 8         | 9    | 10   | 11   |
| Al           | mg/kg | 2     | 2250  | 560   | 28130                                   | N.D.      | N.D. | N.D. | N.D. |
| Sb           | mg/kg | 2     | 45  | 11.3  | 560                                     | N.D.      | N.D. | N.D. | N.D. |
| As           | mg/kg | 0.5   | 3.8   | 0.9   | 47                                      | N.D.      | N.D. | N.D. | N.D. |
| Ba           | mg/kg | 2     | 1500  | 375   | 18750                                   | N.D.      | N.D. | N.D. | N.D. |
| B            | mg/kg | 2     | 1200  | 300   | 15000                                   | N.D.      | N.D. | N.D. | N.D. |
| Cd           | mg/kg | 0.2   | 1.3   | 0.3   | 17                                      | N.D.      | N.D. | N.D. | N.D. |
| Cr III       | mg/kg | 2     | 37.5  | 9.4   | 460                                     | N.D.      | N.D. | N.D. | N.D. |
| Cr VI        | mg/kg | 0.015 | 0.02  | 0.005   | 0.053                                   | N.D.      | N.D. | N.D. | N.D. |
| Co           | mg/kg | 2     | 10.5  | 2.6   | 130                                     | N.D.      | N.D. | N.D. | N.D. |
| Cu           | mg/kg | 2     | 622.5   | 156   | 7700                                    | N.D.      | N.D. | N.D. | N.D. |
| Pb           | mg/kg | 0.2   | 2.0   | 0.5   | 23                                      | N.D.      | N.D. | N.D. | N.D. |
| Mn           | mg/kg | 2     | 1200  | 300   | 15000                                   | N.D.      | N.D. | N.D. | N.D. |
| Hg           | mg/kg | 1     | 7.5   | 1.9   | 94                                      | N.D.      | N.D. | N.D. | N.D. |
| Ni           | mg/kg | 2     | 75  | 18.8  | 930                                     | N.D.      | N.D. | N.D. | N.D. |



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**RESULTS:**

| Test item(s) | Unit  | MDL | Limit (mg/kg)   |   |                                   | Result(s) |      |      |      |
|--------------|-------|-----|---|---|-----------------------------------|-----------|------|------|------|
|              |       |     | Category 1: dry, brittle, powder-like, or pliable materials | Category 2: liquid, or sticky materials | Category 3: scraped-off materials | 8         | 9    | 10   | 11   |
| Se           | mg/kg | 2   | 37.5  | 9.4                                     | 460                               | N.D.      | N.D. | N.D. | N.D. |
| Sr           | mg/kg | 2   | 4500  | 1125                                    | 56000                             | N.D.      | 29   | N.D. | N.D. |
| Sn           | mg/kg | 2   | 15000   | 3750                                    | 180000                            | N.D.      | N.D. | N.D. | N.D. |
| Organic tin  | mg/kg | 0.2 | 0.9   | 0.2                                     | 12                                | N.D.      | N.D. | N.D. | N.D. |
| Zn           | mg/kg | 2   | 3750  | 938                                     | 46000                             | 25        | 19   | 26   | N.D. |

| Test item(s) | Unit  | MDL   | Limit (mg/kg)   |   |                                   | Result(s) |      |      |      |
|--------------|-------|-------|---|---|-----------------------------------|-----------|------|------|------|
|              |       |       | Category 1: dry, brittle, powder-like, or pliable materials | Category 2: liquid, or sticky materials | Category 3: scraped-off materials | 17        | 18   | 19   | 20   |
| Al           | mg/kg | 2     | 2250  | 560                                     | 28130                             | N.D.      | N.D. | N.D. | N.D. |
| Sb           | mg/kg | 2     | 45  | 11.3                                    | 560                               | N.D.      | N.D. | N.D. | N.D. |
| As           | mg/kg | 0.5   | 3.8   | 0.9                                     | 47                                | N.D.      | N.D. | N.D. | N.D. |
| Ba           | mg/kg | 2     | 1500  | 375                                     | 18750                             | N.D.      | N.D. | N.D. | N.D. |
| B            | mg/kg | 2     | 1200  | 300                                     | 15000                             | N.D.      | N.D. | N.D. | N.D. |
| Cd           | mg/kg | 0.2   | 1.3   | 0.3                                     | 17                                | N.D.      | N.D. | N.D. | N.D. |
| Cr III       | mg/kg | 2     | 37.5  | 9.4                                     | 460                               | N.D.      | N.D. | N.D. | N.D. |
| Cr VI        | mg/kg | 0.015 | 0.02  | 0.005                                   | 0.053                             | N.D.      | N.D. | N.D. | N.D. |
| Co           | mg/kg | 2     | 10.5  | 2.6                                     | 130                               | N.D.      | N.D. | N.D. | N.D. |
| Cu           | mg/kg | 2     | 622.5   | 156                                     | 7700                              | N.D.      | N.D. | N.D. | N.D. |
| Pb           | mg/kg | 0.2   | 2.0   | 0.5                                     | 23                                | N.D.      | N.D. | N.D. | N.D. |
| Mn           | mg/kg | 2     | 1200  | 300                                     | 15000                             | N.D.      | N.D. | N.D. | N.D. |



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**RESULTS:**

| Test item(s) | Unit  | MDL | Limit (mg/kg)   |   |   | Result(s) |      |      |      |
|--------------|-------|-----|---|---|---|-----------|------|------|------|
|              |       |     | Category 1:<br>dry, brittle,<br>powder-like,<br>or pliable<br>materials | Category 2:<br>liquid, or sticky<br>materials | Category 3:<br>scraped-off<br>materials | 17        | 18   | 19   | 20   |
| Hg           | mg/kg | 1   | 7.5   | 1.9   | 94                                      | N.D.      | N.D. | N.D. | N.D. |
| Ni           | mg/kg | 2   | 75  | 18.8  | 930                                     | N.D.      | N.D. | N.D. | N.D. |
| Se           | mg/kg | 2   | 37.5  | 9.4   | 460                                     | N.D.      | N.D. | N.D. | N.D. |
| Sr           | mg/kg | 2   | 4500  | 1125  | 56000                                   | N.D.      | N.D. | N.D. | N.D. |
| Sn           | mg/kg | 2   | 15000   | 3750  | 180000                                  | N.D.      | N.D. | N.D. | N.D. |
| Organic tin  | mg/kg | 0.2 | 0.9   | 0.2   | 12                                      | N.D.      | N.D. | N.D. | N.D. |
| Zn           | mg/kg | 2   | 3750  | 938   | 46000                                   | 37        | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL   | Limit (mg/kg)   |   |   | Result(s) |      |
|--------------|-------|-------|---|---|---|-----------|------|
|              |       |       | Category 1:<br>dry, brittle,<br>powder-like,<br>or pliable<br>materials | Category 2:<br>liquid, or sticky<br>materials | Category 3:<br>scraped-off<br>materials | 21        | 22   |
| Al           | mg/kg | 2     | 2250  | 560   | 28130                                   | N.D.      | N.D. |
| Sb           | mg/kg | 2     | 45  | 11.3  | 560                                     | N.D.      | N.D. |
| As           | mg/kg | 0.5   | 3.8   | 0.9   | 47                                      | N.D.      | N.D. |
| Ba           | mg/kg | 2     | 1500  | 375   | 18750                                   | 49        | N.D. |
| B            | mg/kg | 2     | 1200  | 300   | 15000                                   | N.D.      | N.D. |
| Cd           | mg/kg | 0.2   | 1.3   | 0.3   | 17                                      | N.D.      | N.D. |
| Cr III       | mg/kg | 2     | 37.5  | 9.4   | 460                                     | N.D.      | N.D. |
| Cr VI        | mg/kg | 0.015 | 0.02  | 0.005   | 0.053                                   | N.D.      | N.D. |
| Co           | mg/kg | 2     | 10.5  | 2.6   | 130                                     | N.D.      | N.D. |
| Cu           | mg/kg | 2     | 622.5   | 156   | 7700                                    | N.D.      | N.D. |



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**RESULTS:**

| Test item(s) | Unit  | MDL | Limit (mg/kg)   |   |   | Result(s) |      |
|--------------|-------|-----|---|---|---|-----------|------|
|              |       |     | Category 1:<br>dry, brittle,<br>powder-like,<br>or pliable<br>materials | Category 2:<br>liquid, or sticky<br>materials | Category 3:<br>scraped-off<br>materials | 21        | 22   |
| Pb           | mg/kg | 0.2 | 2.0   | 0.5   | 23                                      | N.D.      | N.D. |
| Mn           | mg/kg | 2   | 1200  | 300   | 15000                                   | N.D.      | N.D. |
| Hg           | mg/kg | 1   | 7.5   | 1.9   | 94                                      | N.D.      | N.D. |
| Ni           | mg/kg | 2   | 75  | 18.8  | 930                                     | N.D.      | N.D. |
| Se           | mg/kg | 2   | 37.5  | 9.4   | 460                                     | N.D.      | N.D. |
| Sr           | mg/kg | 2   | 4500  | 1125  | 56000                                   | N.D.      | N.D. |
| Sn           | mg/kg | 2   | 15000   | 3750  | 180000                                  | N.D.      | N.D. |
| Organic tin  | mg/kg | 0.2 | 0.9   | 0.2   | 12                                      | N.D.      | N.D. |
| Zn           | mg/kg | 2   | 3750  | 938   | 46000                                   | 144       | N.D. |

-The Migration content limit is Category 3.

- Migration of Certain Elements is not included in CNAS Accreditation scope.

**Remark :**

1. The migration of organic tin is expressed as Tributyltin(TBT).
2. Confirmation test of soluble chromium (III) & chromium (VI) is not required in case of soluble chromium does not exceed their requirements as specified in BS EN 71-3:2019+A1:2021.
3. Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in BS EN 71-3:2019+A1:2021.

**(13) Total lead content - Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715**



**RESULTS:**

**amendment Title 1 section 101**

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

Test Method: CPSC-CH-E1001-08.3 & CPSC-CH-E1002-08.3

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 1         | 2    | 3    | 5    |
| Lead(Pb)     | mg/kg | 10  | 100   | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 6         | 7    | 8    | 9    |
| Lead(Pb)     | mg/kg | 10  | 100   | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 10        | 11   | 12   | 13   |
| Lead(Pb)     | mg/kg | 10  | 100   | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 14        | 15   | 16   | 17   |
| Lead(Pb)     | mg/kg | 10  | 100   | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |    |
|--------------|-------|-----|-------|-----------|------|------|----|
|              |       |     |       | 18        | 19   | 20   | 22 |
| Lead(Pb)     | mg/kg | 10  | 100   | N.D.      | N.D. | N.D. | 48 |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |
|--------------|-------|-----|-------|-----------|------|
|              |       |     |       | 23        | 24   |
| Lead(Pb)     | mg/kg | 10  | 100   | N.D.      | N.D. |

Total Lead (Pb) Content in Surface Coating

Test Method: CPSC-CH-E1003-09.1

Test Instrument: Atomic Absorption Spectrophotometer (AAS)



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**RESULTS:**

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |
|--------------|-------|-----|-------|-----------|------|
|              |       |     |       | 4         | 21   |
| Lead(Pb)     | mg/kg | 10  | 90    | N.D.      | N.D. |

**(14) Total lead content-California “Proposition 65”**

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

Test Method: CPSC-CH-E1001-08.3 & CPSC-CH-E1002-08.3

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 1         | 2    | 3    | 5    |
| Lead(Pb)     | mg/kg | 10  | 100   | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 6         | 7    | 8    | 9    |
| Lead(Pb)     | mg/kg | 10  | 100   | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 10        | 11   | 12   | 13   |
| Lead(Pb)     | mg/kg | 10  | 100   | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 14        | 15   | 16   | 17   |
| Lead(Pb)     | mg/kg | 10  | 100   | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |    |
|--------------|-------|-----|-------|-----------|------|------|----|
|              |       |     |       | 18        | 19   | 20   | 22 |
| Lead(Pb)     | mg/kg | 10  | 100   | N.D.      | N.D. | N.D. | 48 |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |
|--------------|-------|-----|-------|-----------|------|
|              |       |     |       | 23        | 24   |
| Lead(Pb)     | mg/kg | 10  | 100   | N.D.      | N.D. |

Total Lead (Pb) Content in Surface Coating







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**RESULTS:**

|          |       |    |     |      |    |      |      |
|----------|-------|----|-----|------|----|------|------|
| Lead(Pb) | mg/kg | 10 | 500 | N.D. | 48 | N.D. | N.D. |
|----------|-------|----|-----|------|----|------|------|

**(16) Total Cadmium content- Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006**

Test Method: IEC 62321-5: 2013

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

| Test item(s) | Unit  | MDL | Limit           | Result(s) |      |      |      |
|--------------|-------|-----|-----------------|-----------|------|------|------|
|              |       |     |                 | 1         | 2    | 3    | 4    |
| Cadmium(Cd)  | mg/kg | 5   | Refer to Remark | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit           | Result(s) |      |      |      |
|--------------|-------|-----|-----------------|-----------|------|------|------|
|              |       |     |                 | 8         | 9    | 10   | 11   |
| Cadmium(Cd)  | mg/kg | 5   | Refer to Remark | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit           | Result(s) |      |      |      |
|--------------|-------|-----|-----------------|-----------|------|------|------|
|              |       |     |                 | 17        | 18   | 19   | 20   |
| Cadmium(Cd)  | mg/kg | 5   | Refer to Remark | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit           | Result(s) |      |
|--------------|-------|-----|-----------------|-----------|------|
|              |       |     |                 | 21        | 22   |
| Cadmium(Cd)  | mg/kg | 5   | Refer to Remark | N.D.      | N.D. |

**Remark:**

| Category  | Limit (mg/kg) |
|---|---------------|
| Paints with code[3208]and [3209]  | 100           |
| Paints with code[3208]and [3209] with a zinc content exceeding 10% by weight of the paint | 1000          |
| Painted article   | 1000          |
| Plastic   | 100           |
| Metal parts of jewelry & hair accessories   | 100           |

**(17) Total Cadmium content - California "Proposition 65"**



**RESULTS:**

Test Method: With reference to IEC 62321-5: 2013

Test Instrument: Atomic Absorption Spectrophotometer (AAS)

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 1         | 2    | 3    | 4    |
| Cadmium(Cd)  | mg/kg | 5   | 300   | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 5         | 6    | 7    | 8    |
| Cadmium(Cd)  | mg/kg | 5   | 300   | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 9         | 10   | 11   | 12   |
| Cadmium(Cd)  | mg/kg | 5   | 300   | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 13        | 14   | 15   | 16   |
| Cadmium(Cd)  | mg/kg | 5   | 300   | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 17        | 18   | 19   | 20   |
| Cadmium(Cd)  | mg/kg | 5   | 300   | N.D.      | N.D. | N.D. | N.D. |

| Test item(s) | Unit  | MDL | Limit | Result(s) |      |      |      |
|--------------|-------|-----|-------|-----------|------|------|------|
|              |       |     |       | 21        | 22   | 23   | 24   |
| Cadmium(Cd)  | mg/kg | 5   | 300   | N.D.      | N.D. | N.D. | N.D. |



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**(18) Phthalates content- Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment &16 CFR Part 1307-Prohibition of Children Toys and Child Care Articles Containing Specified Phthalates & California “Proposition 65”.**

Test Method: CPSC-CH-C1001-09.4(2018)

Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS)

| Test item(s)                        | CAS No.                  | Unit  | MDL | Limit | Result(s) |      |
|-------------------------------------|--------------------------|-------|-----|-------|-----------|------|
|                                     |                          |       |     |       | 1         | 2    |
| Bis (2-ethylhexyl) phthalate (DEHP) | 117-81-7                 | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Dibutyl phthalate (DBP)             | 84-74-2                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Benzyl butyl phthalate (BBP)        | 85-68-7                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Di-iso-nonyl phthalate (DINP)       | 28553-12-0<br>68515-48-0 | mg/kg | 100 | 1000  | N.D.      | N.D. |
| Diisobutyl phthalate (DIBP)         | 84-69-5                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Di-n-pentyl Phthalate (DPENP)       | 131-18-0                 | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Di-n-hexyl Phthalate (DHEXP)        | 84-75-3                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Dicyclohexyl Phthalate (DCHP)       | 84-61-7                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Diisodecyl phthalate (DIDP)         | 26761-40-0<br>68515-49-1 | mg/kg | 100 | 1000  | N.D.      | N.D. |

| Test item(s)                        | CAS No.                  | Unit  | MDL | Limit | Result(s) |      |
|-------------------------------------|--------------------------|-------|-----|-------|-----------|------|
|                                     |                          |       |     |       | 3         | 4    |
| Bis (2-ethylhexyl) phthalate (DEHP) | 117-81-7                 | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Dibutyl phthalate (DBP)             | 84-74-2                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Benzyl butyl phthalate (BBP)        | 85-68-7                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Di-iso-nonyl phthalate (DINP)       | 28553-12-0<br>68515-48-0 | mg/kg | 100 | 1000  | N.D.      | N.D. |
| Diisobutyl phthalate (DIBP)         | 84-69-5                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Di-n-pentyl Phthalate (DPENP)       | 131-18-0                 | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Di-n-hexyl Phthalate (DHEXP)        | 84-75-3                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Dicyclohexyl Phthalate (DCHP)       | 84-61-7                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Diisodecyl phthalate (DIDP)         | 26761-40-0<br>68515-49-1 | mg/kg | 100 | 1000  | N.D.      | N.D. |

| Test item(s) | CAS No. | Unit | MDL | Limit | Result(s) |
|--------------|---------|------|-----|-------|-----------|
|--------------|---------|------|-----|-------|-----------|



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|                                     |                          |       |     |      | 8    | 9    |
|-------------------------------------|--------------------------|-------|-----|------|------|------|
| Bis (2-ethylhexyl) phthalate (DEHP) | 117-81-7                 | mg/kg | 50  | 1000 | N.D. | N.D. |
| Dibutyl phthalate (DBP)             | 84-74-2                  | mg/kg | 50  | 1000 | N.D. | N.D. |
| Benzyl butyl phthalate (BBP)        | 85-68-7                  | mg/kg | 50  | 1000 | N.D. | N.D. |
| Di-iso-nonyl phthalate (DINP)       | 28553-12-0<br>68515-48-0 | mg/kg | 100 | 1000 | N.D. | N.D. |
| Diisobutyl phthalate (DIBP)         | 84-69-5                  | mg/kg | 50  | 1000 | N.D. | N.D. |
| Di-n-pentyl Phthalate (DPENP)       | 131-18-0                 | mg/kg | 50  | 1000 | N.D. | N.D. |
| Di-n-hexyl Phthalate (DHEXP)        | 84-75-3                  | mg/kg | 50  | 1000 | N.D. | N.D. |
| Dicyclohexyl Phthalate (DCHP)       | 84-61-7                  | mg/kg | 50  | 1000 | N.D. | N.D. |
| Diisodecyl phthalate (DIDP)         | 26761-40-0<br>68515-49-1 | mg/kg | 100 | 1000 | N.D. | N.D. |

| Test item(s)                        | CAS No.                  | Unit  | MDL | Limit | Result(s) |      |
|-------------------------------------|--------------------------|-------|-----|-------|-----------|------|
|                                     |                          |       |     |       | 10        | 11   |
| Bis (2-ethylhexyl) phthalate (DEHP) | 117-81-7                 | mg/kg | 50  | 1000  | 379       | N.D. |
| Dibutyl phthalate (DBP)             | 84-74-2                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Benzyl butyl phthalate (BBP)        | 85-68-7                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Di-iso-nonyl phthalate (DINP)       | 28553-12-0<br>68515-48-0 | mg/kg | 100 | 1000  | N.D.      | N.D. |
| Diisobutyl phthalate (DIBP)         | 84-69-5                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Di-n-pentyl Phthalate (DPENP)       | 131-18-0                 | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Di-n-hexyl Phthalate (DHEXP)        | 84-75-3                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Dicyclohexyl Phthalate (DCHP)       | 84-61-7                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Diisodecyl phthalate (DIDP)         | 26761-40-0<br>68515-49-1 | mg/kg | 100 | 1000  | N.D.      | N.D. |

| Test item(s)                        | CAS No.  | Unit  | MDL | Limit | Result(s) |      |
|-------------------------------------|----------|-------|-----|-------|-----------|------|
|                                     |          |       |     |       | 17        | 18   |
| Bis (2-ethylhexyl) phthalate (DEHP) | 117-81-7 | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Dibutyl phthalate (DBP)             | 84-74-2  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Benzyl butyl phthalate (BBP)        | 85-68-7  | mg/kg | 50  | 1000  | N.D.      | N.D. |



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| Test item(s)                  | CAS No.                  | Unit  | MDL | Limit | Result(s) |      |
|-------------------------------|--------------------------|-------|-----|-------|-----------|------|
|                               |                          |       |     |       | 17        | 18   |
| Di-iso-nonyl phthalate (DINP) | 28553-12-0<br>68515-48-0 | mg/kg | 100 | 1000  | N.D.      | N.D. |
| Diisobutyl phthalate (DIBP)   | 84-69-5                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Di-n-pentyl Phthalate (DPENP) | 131-18-0                 | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Di-n-hexyl Phthalate (DHEXP)  | 84-75-3                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Dicyclohexyl Phthalate (DCHP) | 84-61-7                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Diisodecyl phthalate (DIDP)   | 26761-40-0<br>68515-49-1 | mg/kg | 100 | 1000  | N.D.      | N.D. |

| Test item(s)                        | CAS No.                  | Unit  | MDL | Limit | Result(s) |      |
|-------------------------------------|--------------------------|-------|-----|-------|-----------|------|
|                                     |                          |       |     |       | 19        | 20   |
| Bis (2-ethylhexyl) phthalate (DEHP) | 117-81-7                 | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Dibutyl phthalate (DBP)             | 84-74-2                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Benzyl butyl phthalate (BBP)        | 85-68-7                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Di-iso-nonyl phthalate (DINP)       | 28553-12-0<br>68515-48-0 | mg/kg | 100 | 1000  | N.D.      | N.D. |
| Diisobutyl phthalate (DIBP)         | 84-69-5                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Di-n-pentyl Phthalate (DPENP)       | 131-18-0                 | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Di-n-hexyl Phthalate (DHEXP)        | 84-75-3                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Dicyclohexyl Phthalate (DCHP)       | 84-61-7                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Diisodecyl phthalate (DIDP)         | 26761-40-0<br>68515-49-1 | mg/kg | 100 | 1000  | N.D.      | N.D. |

| Test item(s)                        | CAS No.                  | Unit  | MDL | Limit | Result(s) |      |
|-------------------------------------|--------------------------|-------|-----|-------|-----------|------|
|                                     |                          |       |     |       | 21        | 22   |
| Bis (2-ethylhexyl) phthalate (DEHP) | 117-81-7                 | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Dibutyl phthalate (DBP)             | 84-74-2                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Benzyl butyl phthalate (BBP)        | 85-68-7                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Di-iso-nonyl phthalate (DINP)       | 28553-12-0<br>68515-48-0 | mg/kg | 100 | 1000  | N.D.      | N.D. |
| Diisobutyl phthalate (DIBP)         | 84-69-5                  | mg/kg | 50  | 1000  | N.D.      | N.D. |



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| Test item(s)                  | CAS No.                  | Unit  | MDL | Limit | Result(s) |      |
|-------------------------------|--------------------------|-------|-----|-------|-----------|------|
|                               |                          |       |     |       | 21        | 22   |
| Di-n-pentyl Phthalate (DPENP) | 131-18-0                 | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Di-n-hexyl Phthalate (DHEXP)  | 84-75-3                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Dicyclohexyl Phthalate (DCHP) | 84-61-7                  | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Diisodecyl phthalate (DIDP)   | 26761-40-0<br>68515-49-1 | mg/kg | 100 | 1000  | N.D.      | N.D. |

- DIDP is not included in CNAS Accreditation scope.

**(19) Phthalates content- Item 51& 52 of Annex XVII of REACH Regulation (EC) 1907/2006**

Test Method: With reference to EN 14372:2004(E)

Test Instrument: Gas Chromatography-Mass Spectrometer (GC-MS)

| Test item(s)                       | Unit  | MDL | Limit | Result(s) |      |      |
|------------------------------------|-------|-----|-------|-----------|------|------|
|                                    |       |     |       | 1         | 2    | 3    |
| Bis-(2-ethylhexyl)Phthalate (DEHP) | mg/kg | 50  | 1000  | N.D.      | N.D. | N.D. |
| Dibutyl Phthalate (DBP)            | mg/kg | 50  | 1000  | N.D.      | N.D. | N.D. |
| Benzylbutyl Phthalate (BBP)        | mg/kg | 50  | 1000  | N.D.      | N.D. | N.D. |
| Diisobutyl phthalate (DIBP)        | mg/kg | 50  | 1000  | N.D.      | N.D. | N.D. |
| Total(DEHP+ DBP+BBP+ DIBP)         | mg/kg | /   | 1000  | N.D.      | N.D. | N.D. |
| Diisononyl Phthalate (DINP)        | mg/kg | 100 | /     | N.D.      | N.D. | N.D. |
| Diisodecyl Phthalate (DIDP)        | mg/kg | 100 | /     | N.D.      | N.D. | N.D. |
| Di-n-octyl Phthalate (DNOP)        | mg/kg | 50  | /     | N.D.      | N.D. | N.D. |
| Total(DINP+ DIDP+DNOP)             | mg/kg | /   | 1000  | N.D.      | N.D. | N.D. |

| Test item(s)                       | Unit  | MDL | Limit | Result(s) |      |      |
|------------------------------------|-------|-----|-------|-----------|------|------|
|                                    |       |     |       | 4         | 8    | 9    |
| Bis-(2-ethylhexyl)Phthalate (DEHP) | mg/kg | 50  | 1000  | N.D.      | N.D. | N.D. |
| Dibutyl Phthalate (DBP)            | mg/kg | 50  | 1000  | N.D.      | N.D. | N.D. |
| Benzylbutyl Phthalate (BBP)        | mg/kg | 50  | 1000  | N.D.      | N.D. | N.D. |



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| Test item(s)                | Unit  | MDL | Limit | Result(s) |      |      |
|-----------------------------|-------|-----|-------|-----------|------|------|
|                             |       |     |       | 4         | 8    | 9    |
| Diisobutyl phthalate (DIBP) | mg/kg | 50  | 1000  | N.D.      | N.D. | N.D. |
| Total(DEHP+ DBP+BBP+ DIBP)  | mg/kg | /   | 1000  | N.D.      | N.D. | N.D. |
| Diisononyl Phthalate (DINP) | mg/kg | 100 | /     | N.D.      | N.D. | N.D. |
| Diisodecyl Phthalate (DIDP) | mg/kg | 100 | /     | N.D.      | N.D. | N.D. |
| Di-n-octyl Phthalate (DNOP) | mg/kg | 50  | /     | N.D.      | N.D. | N.D. |
| Total(DINP+ DIDP+DNOP)      | mg/kg | /   | 1000  | N.D.      | N.D. | N.D. |

| Test item(s)                       | Unit  | MDL | Limit | Result(s) |      |      |
|------------------------------------|-------|-----|-------|-----------|------|------|
|                                    |       |     |       | 10        | 11   | 17   |
| Bis-(2-ethylhexyl)Phthalate (DEHP) | mg/kg | 50  | 1000  | 379       | N.D. | N.D. |
| Dibutyl Phthalate (DBP)            | mg/kg | 50  | 1000  | N.D.      | N.D. | N.D. |
| Benzylbutyl Phthalate (BBP)        | mg/kg | 50  | 1000  | N.D.      | N.D. | N.D. |
| Diisobutyl phthalate (DIBP)        | mg/kg | 50  | 1000  | N.D.      | N.D. | N.D. |
| Total(DEHP+ DBP+BBP+ DIBP)         | mg/kg | /   | 1000  | 379       | N.D. | N.D. |
| Diisononyl Phthalate (DINP)        | mg/kg | 100 | /     | N.D.      | N.D. | N.D. |
| Diisodecyl Phthalate (DIDP)        | mg/kg | 100 | /     | N.D.      | N.D. | N.D. |
| Di-n-octyl Phthalate (DNOP)        | mg/kg | 50  | /     | N.D.      | N.D. | N.D. |
| Total(DINP+ DIDP+DNOP)             | mg/kg | /   | 1000  | N.D.      | N.D. | N.D. |

| Test item(s)                       | Unit  | MDL | Limit | Result(s) |      |      |
|------------------------------------|-------|-----|-------|-----------|------|------|
|                                    |       |     |       | 18        | 19   | 20   |
| Bis-(2-ethylhexyl)Phthalate (DEHP) | mg/kg | 50  | 1000  | N.D.      | N.D. | N.D. |
| Dibutyl Phthalate (DBP)            | mg/kg | 50  | 1000  | N.D.      | N.D. | N.D. |
| Benzylbutyl Phthalate (BBP)        | mg/kg | 50  | 1000  | N.D.      | N.D. | N.D. |
| Diisobutyl phthalate (DIBP)        | mg/kg | 50  | 1000  | N.D.      | N.D. | N.D. |
| Total(DEHP+ DBP+BBP+ DIBP)         | mg/kg | /   | 1000  | N.D.      | N.D. | N.D. |
| Diisononyl Phthalate (DINP)        | mg/kg | 100 | /     | N.D.      | N.D. | N.D. |



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| Test item(s)                | Unit  | MDL | Limit | Result(s) |      |      |
|-----------------------------|-------|-----|-------|-----------|------|------|
|                             |       |     |       | 18        | 19   | 20   |
| Diisodecyl Phthalate (DIDP) | mg/kg | 100 | /     | N.D.      | N.D. | N.D. |
| Di-n-octyl Phthalate (DNOP) | mg/kg | 50  | /     | N.D.      | N.D. | N.D. |
| Total(DINP+ DIDP+DNOP)      | mg/kg | /   | 1000  | N.D.      | N.D. | N.D. |

| Test item(s)                       | Unit  | MDL | Limit | Result(s) |      |
|------------------------------------|-------|-----|-------|-----------|------|
|                                    |       |     |       | 21        | 22   |
| Bis-(2-ethylhexyl)Phthalate (DEHP) | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Dibutyl Phthalate (DBP)            | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Benzylbutyl Phthalate (BBP)        | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Diisobutyl phthalate (DIBP)        | mg/kg | 50  | 1000  | N.D.      | N.D. |
| Total(DEHP+ DBP+BBP+ DIBP)         | mg/kg | /   | 1000  | N.D.      | N.D. |
| Diisononyl Phthalate (DINP)        | mg/kg | 100 | /     | N.D.      | N.D. |
| Diisodecyl Phthalate (DIDP)        | mg/kg | 100 | /     | N.D.      | N.D. |
| Di-n-octyl Phthalate (DNOP)        | mg/kg | 50  | /     | N.D.      | N.D. |
| Total(DINP+ DIDP+DNOP)             | mg/kg | /   | 1000  | N.D.      | N.D. |

- DIBP is not included in CNAS Accreditation scope.

With the client's prior consent, \* was subcontracted test item.

**Note:**

- mg/kg=milligram per kilogram
- N.D. =Not Detected (<MDL)
- MDL=Method Detection Limit
- The soluble test results shown are of the adjusted analytical results.





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**EXHIBIT # 1**



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