



# TEST REPORT

MID OCEAN BRANDS B.V.

**Technical Report: (3223)345-0439**

December 22, 2023

Date Received:

December 11, 2023

Page 1 of 14

MID OCEAN BRANDS B.V.  
7/F., KINGS TOWER, 111 KING LAM STREET, CHEUNG SHA  
WAN, KOWLOON, HONG KONG

## SAMPLE INFORMATION:

|                                    |                     |                                |        |
|------------------------------------|---------------------|--------------------------------|--------|
| <b>Sample Description:</b>         | CHALK SET           | <b>Sample Quantity:</b>        | N/A    |
| <b>Vendor:</b>                     | N/A                 | <b>Style No.(s):</b>           | MO6479 |
| <b>Manufacturer:</b>               | 111041              | <b>SKN/SKU No.:</b>            | N/A    |
| <b>Buyer:</b>                      | N/A                 | <b>PO No.:</b>                 | N/A    |
| <b>Labeled Age Grade:</b>          | NOT PRESENT         | <b>Ref#:</b>                   | N/A    |
| <b>Appropriate Age Grade:</b>      | N/A                 | <b>Country of Origin:</b>      | CHINA  |
| <b>Client Specified Age Grade:</b> | OVER 3 YEARS OF AGE | <b>Assortment No.:</b>         | N/A    |
| <b>Tested Age Grade:</b>           | OVER 3 YEARS OF AGE | <b>Country of Destination:</b> | N/A    |
| <b>UPC Code:</b>                   | N/A                 | <b>Color:</b>                  | N/A    |

Above sample information was provided and confirmed by customers, BV is not responsible for its accuracy or completeness.

## EXECUTIVE SUMMARY:

| TEST REQUESTED                                                                                                                                                   | CONCLUSION         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| The 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<br>SEE NOTE 2 |
| The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2020                                                                     | PASS               |
| Migration of Certain Elements - EN71-3:2019+A1:2021                                                                                                              | PASS               |
| Polycyclic Aromatic Hydrocarbons (PAHs) Content - Regulation (EC) No. 1907/2006 Annex XVII Entry 50, Point 5                                                     | PASS               |
| Benzene Content - Reference to Regulation (EC) No. 1907/2006 Annex XVII Entry 5, Point 3                                                                         | PASS               |
| Phthalates Content - Reference to regulation (EC) No. 1907/2006 Annex XVII Entry 51 & 52                                                                         | PASS               |
| Total Cd Content & As Applicant's requirement                                                                                                                    | PASS               |

- Note:
- 1.The sample is tested as "Over 3 years of age" per the client's request.
  - 2.No relevant packaging was provided with the submitted sample(s), consequently, evaluation of the labeling requirements of this European Standard, "Safety of toys", EN71: Part 1:2014+A1:2018, clauses 7, was not conducted.
  - 3.Samples are provided by customers.
  - 4.The tested part of the sample was specified by client.
  - 5.The composite testing was performed as per client's request.
  - 6.The test conclusion was given based on the results of tested part.



This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



MID OCEAN BRANDS B.V.  
Technical Report: **(3223)345-0439**  
December 22, 2023  
Page 2 of 14

**REMARK**

If there are questions or concerns on this report, please contact the following persons:

Customer service

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**BUREAU VERITAS TESTING TECHNICAL SERVICE (ZHEJIANG) CO.,LTD**

*Crystal*

PREPARED BY : \_\_\_\_\_  
Crystal Deng

*Kobe Chen seb Wang*

\_\_\_\_\_  
Kobe Chen  
LAB SUPERVISOR  
Seb Wang  
OPERATION MANAGER(HARDLINE AND TOY DIVISION)

### APPROPRIATE AGE GRADE DETERMINATION

|                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| The Appropriate Age Grade is determined with reference to the EN71: Part 1:2014+A1:2018, European Union Guidance Documents, CEN ISO/TR 8124-8:2016 Safety of toys - Part 8: Age determination guidelines and Age Determination Guidelines: Relating Children's Ages to Toy Characteristics and Play Behavior, September, 2002 |                                                                                                                                                                                                           |
| 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

| Symbol | Explanation                                                              |        |                    |        |                     |
|--------|--------------------------------------------------------------------------|--------|--------------------|--------|---------------------|
| NM     | The samples are NOT IN COMPLIANCE WITH the requirement of this Subclause |        |                    |        |                     |
| M      | The samples are IN COMPLIANCE WITH the requirement of this Subclause     |        |                    |        |                     |
| N/A    | Not Applicable                                                           |        |                    |        |                     |
| NR     | Not Requested                                                            |        |                    |        |                     |
| NE     | Not Evaluated                                                            |        |                    |        |                     |
| NP     | None Present                                                             |        |                    |        |                     |
| 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 |        |                     |

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

| Subclause                                           | Requirement                                                        | Result |
|-----------------------------------------------------|--------------------------------------------------------------------|--------|
| 4.1                                                 | Material cleanliness                                               | M      |
| 4.2                                                 | Assembly                                                           | N/A    |
| 4.3                                                 | Flexible plastic sheeting                                          | N/A    |
| 4.4                                                 | Toy Bags                                                           | N/A    |
| 4.5                                                 | Glass                                                              | N/A    |
| 4.6                                                 | Expanding materials                                                | N/A    |
| 4.7 & 7.6                                           | Edges                                                              | M      |
| 4.8 & 7.6                                           | Points and metallic wires                                          | M      |
| 4.8e                                                | Splinters                                                          | M      |
| 4.9                                                 | Protruding parts                                                   | N/A    |
| 4.10.1                                              | Folding and sliding mechanisms                                     | N/A    |
| 4.10.2                                              | Driving mechanisms                                                 | N/A    |
| 4.10.3                                              | Hinges                                                             | N/A    |
| 4.10.4                                              | Springs                                                            | N/A    |
| 4.11                                                | Mouth actuated toys and other toys intended to be put in the mouth | N/A    |
| 4.12 & 7.3                                          | Balloons                                                           | N/A    |
| 4.13 & 7.9                                          | Cord of toy kites and other flying toys                            | N/A    |
| 4.14.1                                              | Toys which a child can enter                                       | N/A    |
| 4.14.2 & 7.8                                        | Masks and helmets                                                  | N/A    |
| 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                     | N/A    |
| 4.15.1.3                                            | Toys propelled by child – Strength                                 | N/A    |
| 4.15.1.4                                            | Toys propelled by child – Stability                                | N/A    |
| 4.15.1.5                                            | Toys propelled by child – Braking                                  | N/A    |
| 4.15.1.6                                            | Toys propelled by child - Transmission                             | N/A    |
| 4.15.1.7                                            | Toys propelled by child – insertion mark                           | N/A    |
| 4.15.1.8                                            | Electrically-driven ride-on toys                                   | N/A    |
| 4.15.2                                              | Toy bicycles                                                       |        |
| 4.15.2.2 & 7.15                                     | Toy bicycles – Warnings and instructions for use                   | N/A    |
| 4.15.2.3                                            | Toy bicycles – Braking                                             | N/A    |
| 4.15.3 & 7.16 & 7.19                                | Rocking horses and similar toys                                    | N/A    |
| 4.15.4 & 7.16                                       | Toys not propelled by child                                        | N/A    |
| 4.15.5 & 7.18                                       | Toy scooters                                                       | N/A    |
| 4.16                                                | Heavy immobile toys                                                | N/A    |
| 4.17.2                                              | All projectiles                                                    | N/A    |
| 4.17.3 & 7.7                                        | Projectile toys with stored energy                                 | N/A    |
| 4.17.4 & 7.26                                       | Certain projectiles toys without stored energy                     | N/A    |
| 4.18 & 7.4                                          | Aquatic toys and inflatable toys                                   | N/A    |
| 4.19 & 7.13 & 7.14                                  | Percussion caps                                                    | N/A    |
| *4.20.2.1- 4.20.2.8, 4.20.2.10, 4.20.2.12           | Acoustics                                                          | N/A    |

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

| Subclause                                             | Requirement                                                                               | Result |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------|--------|
| 4.20.2.9, 4.20.2.11 & 7.14                            | Acoustics – percussion toys & cap-firing toys                                             | N/A    |
| 4.21                                                  | Toys containing a non-electrical heat source                                              | N/A    |
| 4.22 & 7.2                                            | Small balls                                                                               | N/A    |
| 4.23                                                  | Magnet                                                                                    |        |
| 4.23.2 a, b & c                                       | Toy other than magnetic / electrical experimental sets intended for children over 8 years | N/A    |
| 4.23.3 & 7.20                                         | Magnetic / electrical experimental sets intended for children over 8 years                | N/A    |
| 4.24                                                  | Yo-yo ball                                                                                | N/A    |
| 4.25                                                  | Toys attached to food                                                                     | N/A    |
| 4.26                                                  | Toy Disguise Costumes                                                                     | N/A    |
| 4.27.1                                                | Flying toys – General                                                                     | N/A    |
| 4.27.2 & 7.25.1                                       | Rotors and propellers on flying toys                                                      | N/A    |
| 4.27.3 & 7.25.2                                       | Rotors and propellers on remote controlled flying toys                                    | N/A    |
| <b>FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS</b> |                                                                                           |        |
| 5.1                                                   | General                                                                                   | N/A    |
| 5.1a                                                  | Small parts – as received                                                                 | N/A    |
| 5.1b                                                  | Small parts, sharp points, sharp edges – after tests                                      | N/A    |
| 5.1c                                                  | Cross section <2mm metal points & wires                                                   | N/A    |
| 5.1e                                                  | Toys contain glue                                                                         | N/A    |
| 5.1f                                                  | Casing of toys                                                                            | N/A    |
| 5.2                                                   | Fillings, coverings and seams                                                             | N/A    |
| 5.3                                                   | Adhesion of plastic sheeting                                                              | N/A    |
| 5.4.2                                                 | Cords and chains in toys intended for children under 18 months                            | N/A    |
| 5.4.3 & 7.22                                          | Cords and chains in toys intended for children of 18 months or over but under 36 months   | N/A    |
| 5.4.4                                                 | Fixed loops, tangled loops and nooses                                                     | N/A    |
| 5.4.5                                                 | Cords and chains on pull along toys                                                       | N/A    |
| 5.4.6 & 7.21                                          | Electrical cables                                                                         | N/A    |
| 5.4.7                                                 | Cross-sectional dimension of certain cords                                                | N/A    |
| 5.4.8                                                 | Self-retracting cords                                                                     | N/A    |
| 5.4.9 & 7.11 & 7.23                                   | Toys attached to or intended to be strung across a cradle, cot or perambulator            | N/A    |
| 5.5 & 7.12                                            | Liquid filled toys                                                                        | N/A    |
| 5.6                                                   | Electrically driven toys                                                                  | N/A    |
| 5.7                                                   | Glass and porcelain                                                                       | N/A    |
| 5.8                                                   | Shape and size                                                                            | N/A    |
| 5.9 & 7.17                                            | Monofilament fibres                                                                       | N/A    |
| 5.10                                                  | Small balls                                                                               | N/A    |
| 5.11                                                  | Play figures                                                                              | N/A    |
| 5.12                                                  | Hemispheric shaped toys                                                                   | N/A    |
| 5.13                                                  | Suction cups                                                                              | N/A    |
| 5.14                                                  | Straps intended to be worn fully or partially around the neck                             | N/A    |
| 5.15 & 7.24                                           | Sledges with cords for pulling                                                            | N/A    |
| 6                                                     | Packaging                                                                                 | N/A    |



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MID OCEAN BRANDS B.V.  
Technical Report: **(3223)345-0439**  
December 22, 2023  
Page 6 of 14

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

| Subclause | Requirement                                    | Result     |
|-----------|------------------------------------------------|------------|
|           | <b>WARNINGS, INSTRUCTIONS FOR USE</b>          |            |
| 7.1       | General                                        | SEE NOTE 2 |
| 7.2       | Toys not intended for children under 36 months | SEE NOTE 2 |
| 7.5       | Functional toys                                | SEE NOTE 2 |

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

**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                                 | 4.14.2     | 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.11, 8.12 | 4.17.3     | 8.24.1                                                     | 5.3        | 8.4.2.1, 8.25                               |
| 4.5        | 8.5, 8.7, 8.11, 8.12                   | 4.15.1.3   | 8.11, 8.12, 8.21, 8.22                  | 4.17.4     | 8.24.2                                                     | 5.4        | 8.20, 8.36, 8.38, 8.39, 8.40                |
| 4.6        | 8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.14 | 4.15.1.4   | 8.23.1                                  | 4.18       | 8.2, 8.3, 8.4.2.1                                          | 5.5        | 8.15                                        |
| 4.7        | 8.11                                   | 4.15.1.5   | 8.26.1                                  | 4.20       | 8.28                                                       | 5.6        | 8.29                                        |
| 4.8        | 8.12, 8.13                             | 4.15.1.8   | 8.29                                    | 4.21       | 8.30                                                       | 5.8        | 8.16                                        |
| 4.9        | 8.4.2.3, 8.11, 8.12                    | 4.15.2.4   | 8.26.2                                  | 4.22       | 8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.32                     | 5.10       | 8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9, 8.32 |
| 4.10.1     | 8.18.2, 8.18.3                         | 4.15.3     | 8.21, 8.23.1                            | 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 | 5.11       | 8.33                                        |
| 4.10.2     | 8.5, 8.6, 8.7, 8.11, 8.12              | 4.15.4     | 8.21, 8.23.1                            | 4.24       | 8.37                                                       | 5.12       | 8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9,      |
| 4.11       | 8.2, 8.3, 8.4.2.1, 8.9, 8.17           | 4.15.5     | 8.11, 8.12, 8.21, 8.22, 8.26.3, 8.27    | 4.25       | 8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32.1                   | 5.13       | 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32           |
| 4.13       | 8.19                                   | 4.16       | 8.23.2                                  | 5.1        | 8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.9, 8.11, 8.12          |            |                                             |
| 4.14.1     | 8.31.1, 8.31.2                         | 4.17.1     | 8.4.2.3                                 |            |                                                            |            |                                             |

**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                                                            | N/A    |
| 4.1       | Flammable gases                                                                             | N/A    |
| 4.1       | Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels | N/A    |
| 4.2       | Toys to be worn on the head                                                                 | N/A    |
| 4.3       | Toy disguise costumes and toys intended to be worn by child in play                         | N/A    |
| 4.3       | warning on product and packaging (10 - 30 mm/s)                                             | N/A    |
| 4.4       | Toys intended to be entered by a child                                                      | N/A    |
| 4.4       | warning on product and packaging (10 – 30 mm/s)                                             | N/A    |
| 4.5       | Soft-filled toys                                                                            | N/A    |

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2

| Sub-clause | Test Method | Sub-clause | Test Method | Sub-clause | Test Method | 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         | -          | -           |

**Tested Component(s) Breakdown List**

| Test Item(s) | Description  | Location(s) | Style(s) |
|--------------|--------------|-------------|----------|
| 1            | Pink chalk   | -           | -        |
| 2            | Yellow chalk | -           | -        |
| 3            | Blue chalk   | -           | -        |
| 4            | Green chalk  | -           | -        |
| 5            | Purple chalk | -           | -        |
| 6            | Orange chalk | -           | -        |
| 7            | Brown paper  | -           | -        |

**Migration of Certain Elements - EN71-3:2019+A1:2021**

**Test Method:** European Standard EN71-3:2019+A1:2021

| Analyte               | Limit:<br>Type I | Result (mg/kg) |        |        |        |        |
|-----------------------|------------------|----------------|--------|--------|--------|--------|
|                       |                  | Sample ID      |        |        |        |        |
|                       |                  | 1              | 2      | 3      | 4      | 5      |
| Boron (B)             | 1200             | <120           | <120   | <120   | <120   | <120   |
| Aluminium (Al)        | 2250             | <225           | <225   | <225   | <225   | <225   |
| Chromium III (Cr III) | 37.5             | <3.75          | <3.75  | <3.75  | <3.75  | <3.75  |
| Chromium VI (Cr VI)   | 0.02             | <0.005         | <0.005 | <0.005 | <0.005 | <0.005 |
| Manganese (Mn)        | 1200             | <120           | <120   | <120   | <120   | <120   |
| Cobalt (Co)           | 10.5             | <1.05          | <1.05  | <1.05  | <1.05  | <1.05  |
| Nickel (Ni)           | 75               | <7.5           | <7.5   | <7.5   | <7.5   | <7.5   |
| Copper (Cu)           | 622.5            | <62.25         | <62.25 | <62.25 | <62.25 | <62.25 |
| Zinc (Zn)             | 3750             | <375           | <375   | <375   | <375   | <375   |
| Arsenic (As)          | 3.8              | <0.38          | <0.38  | <0.38  | <0.38  | <0.38  |
| Selenium (Se)         | 37.5             | <3.75          | <3.75  | <3.75  | <3.75  | <3.75  |
| Strontium (Sr)        | 4500             | 453            | 532    | 572    | 533    | <450   |
| Cadmium (Cd)          | 1.3              | <0.13          | <0.13  | <0.13  | <0.13  | <0.13  |
| Tin (Sn)              | 15000            | <1500          | <1500  | <1500  | <1500  | <1500  |
| Organic tin           | 0.9              | <0.09          | <0.09  | <0.09  | <0.09  | <0.09  |
| Antimony (Sb)         | 45               | <4.5           | <4.5   | <4.5   | <4.5   | <4.5   |
| Barium (Ba)           | 1500             | <150           | <150   | <150   | <150   | <150   |
| Mercury (Hg)          | 7.5              | <0.75          | <0.75  | <0.75  | <0.75  | <0.75  |
| Lead (Pb)             | 2                | 0.432          | 0.619  | 0.596  | 0.770  | 0.550  |
| Conclusion            |                  | PASS           | PASS   | PASS   | PASS   | PASS   |



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MID OCEAN BRANDS B.V.

Technical Report: **(3223)345-0439**

December 22, 2023

Page 9 of 14

| Analyte               | Limit:<br>Type I | Result (mg/kg) |
|-----------------------|------------------|----------------|
|                       |                  | Sample ID      |
|                       |                  | 6              |
| Boron (B)             | 1200             | <120           |
| Aluminium (Al)        | 2250             | <225           |
| Chromium III (Cr III) | 37.5             | <3.75          |
| Chromium VI (Cr VI)   | 0.02             | <0.005         |
| Manganese (Mn)        | 1200             | <120           |
| Cobalt (Co)           | 10.5             | <1.05          |
| Nickel (Ni)           | 75               | <7.5           |
| Copper (Cu)           | 622.5            | <62.25         |
| Zinc (Zn)             | 3750             | <375           |
| Arsenic (As)          | 3.8              | <0.38          |
| Selenium (Se)         | 37.5             | <3.75          |
| Strontium (Sr)        | 4500             | 542            |
| Cadmium (Cd)          | 1.3              | <0.13          |
| Tin (Sn)              | 15000            | <1500          |
| Organic tin           | 0.9              | <0.09          |
| Antimony (Sb)         | 45               | <4.5           |
| Barium (Ba)           | 1500             | <150           |
| Mercury (Hg)          | 7.5              | <0.75          |
| Lead (Pb)             | 2                | 0.262          |
| Conclusion            |                  | PASS           |

| Analyte               | Limit:<br>Type III | Result (mg/kg) |
|-----------------------|--------------------|----------------|
|                       |                    | Sample ID      |
|                       |                    | 7              |
| Boron (B)             | 15000              | <1500          |
| Aluminium (Al)        | 28130              | <2813          |
| Chromium III (Cr III) | 460                | <46            |
| Chromium VI (Cr VI)   | 0.053              | <0.02          |
| Manganese (Mn)        | 15000              | <1500          |
| Cobalt (Co)           | 130                | <13            |
| Nickel (Ni)           | 930                | <93            |
| Copper (Cu)           | 7700               | <770           |
| Zinc (Zn)             | 46000              | <4600          |
| Arsenic (As)          | 47                 | <4.7           |
| Selenium (Se)         | 460                | <46            |
| Strontium (Sr)        | 56000              | <5600          |
| Cadmium (Cd)          | 17                 | <1.7           |
| Tin (Sn)              | 180000             | <18000         |
| Organic tin           | 12                 | <1.2           |
| Antimony (Sb)         | 560                | <56            |
| Barium (Ba)           | 18750              | <1875          |
| Mercury (Hg)          | 94                 | <9.4           |
| Lead (Pb)             | 23                 | 7.21           |
| Conclusion            |                    | PASS           |

Note / Key:

Req. = Requirement      mg/kg = milligram per kilogram

Remark:

- Test Item(s) was (were) tested according to European Standard EN 71-3: 2019 + A1: 2021, Section 8.
  - Results of Cr III and Cr VI were reported as sum of soluble chromium content unless further verified.
  - \*Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation unless further specified.
  - The pH measured shall be reported after migration if it was outside the range of 1.1 to 1.3.
  - European Standard EN 71 Part 3: 2019 is currently harmonized under European Parliament and Council Directive 2009/48/EC and will be superseded when European Standard EN 71 Part 3: 2019 + A1: 2021 is harmonized.
  - The received sample(s) contained accessible component(s) of less than 10 milligrams by weight on one single sample, therefore such component(s) was (were) not subject to migration of certain elements of European Standard, "Safety of Toys, EN 71 Part 3: 2019 + A1: 2021", as specified in Section 7.1 - Selection of test portions.
  - \* denotes as result(s) was (were) verified by :
- For organic tin content - Test method with reference to European Standard EN 71-3: 2019 + A1: 2021 and reported as tributyltin (TBT) cation.
- For Cr VI content - In house ion chromatography analysis.

**Polycyclic Aromatic Hydrocarbons (PAHs) Content – Regulation (EC) No. 1907/2006 Annex XVII Entry 50, Point 5**

**Test Method** : With reference to test method mentioned in German AfPS GS 2019:01 PAK.

| Parameter                | Unit  | Result    |           | Maximum Allowable Limit |
|--------------------------|-------|-----------|-----------|-------------------------|
|                          |       | 1 + 2 + 3 | 4 + 5 + 6 |                         |
| Benzo (a) anthracene     | mg/kg | ND        | ND        | 0.5                     |
| Chrysene                 | mg/kg | ND        | ND        | 0.5                     |
| Benzo (b) fluoranthene   | mg/kg | ND        | ND        | 0.5                     |
| Benzo (j) fluoranthene   | mg/kg | ND        | ND        | 0.5                     |
| Benzo (k) fluoranthene   | mg/kg | ND        | ND        | 0.5                     |
| Benzo (e) pyrene         | mg/kg | ND        | ND        | 0.5                     |
| Benzo (a) pyrene         | mg/kg | ND        | ND        | 0.5                     |
| Dibenzo (a,h) anthracene | mg/kg | ND        | ND        | 0.5                     |
| <b>Conclusion</b>        | -     | PASS      | PASS      | -                       |

Note / Key:

ND = Not detected      mg/kg = milligram(s) per

kilogram = ppm = part(s) per million

For individual testing - Each of the listed PAHs(mg/kg) :  
0.2

Detection Limit (mg/kg):

For composite testing - Each of the listed PAHs(mg/kg) :  
0.1

**Benzene Content – Reference to Regulation (EC) No. 1907/2006 Annex XVII Entry 5, Point 3**

**Test Method** : Organic solvent extraction and analysis by Gas Chromatograph Mass Spectrometer (GC-MS).

| Parameter         | Unit  | Result |      |      |      | Maximum Allowable Limit |
|-------------------|-------|--------|------|------|------|-------------------------|
|                   |       | 1      | 2    | 3    | 4    |                         |
| Benzene           | mg/kg | ND     | ND   | ND   | ND   | 5                       |
| <b>Conclusion</b> | -     | PASS   | PASS | PASS | PASS | -                       |

| Parameter         | Unit  | Result |      | Maximum Allowable Limit |
|-------------------|-------|--------|------|-------------------------|
|                   |       | 5      | 6    |                         |
| Benzene           | mg/kg | ND     | ND   | 5                       |
| <b>Conclusion</b> | -     | PASS   | PASS | -                       |

Note / Key:

ND = Not Detected

Detection Limit (mg/kg) : 5

**Phthalates Content – Reference to regulation (EC) No. 1907/2006 Annex XVII Entry 51 & 52**

**Test Method** : Reference to EN 14372:2004.

| Parameter                                                                                                                    | Unit  | Result    |           | Maximum Allowable Limit |
|------------------------------------------------------------------------------------------------------------------------------|-------|-----------|-----------|-------------------------|
|                                                                                                                              |       | 1 + 2 + 3 | 4 + 5 + 6 |                         |
| <b>A. For toys and childcare articles</b>                                                                                    | -     | -         | -         | -                       |
| DBP                                                                                                                          | mg/kg | ND        | ND        | -                       |
| BBP                                                                                                                          | mg/kg | ND        | ND        | -                       |
| DEHP                                                                                                                         | mg/kg | ND        | ND        | -                       |
| DiBP                                                                                                                         | mg/kg | ND        | ND        | -                       |
| <b>B. Additional requirements for toys and childcare articles, which can be placed in mouth by the children (See remark)</b> | -     | -         | -         | -                       |
| DnOP                                                                                                                         | mg/kg | ND        | ND        | -                       |
| DINP                                                                                                                         | mg/kg | ND        | ND        | -                       |
| DIDP                                                                                                                         | mg/kg | ND        | ND        | -                       |
| Sum of DBP, BBP, DEHP, DiBP                                                                                                  | mg/kg | ND        | ND        | 1000                    |
| Sum of DNOP, DIDP, DINP                                                                                                      | mg/kg | ND        | ND        | 1000                    |
| <b>Conclusion</b>                                                                                                            | -     | PASS      | PASS      | -                       |

Note / Key:

ND = Not Detected

Conc. = Concentration

Detection Limit (mg/kg): Each 50

| List of Phthalates Content – Reference To Regulation (EC) No. 1907/2006 Annex XVII Entry 51 & 52 |                                  |          |     |                               |                         |
|--------------------------------------------------------------------------------------------------|----------------------------------|----------|-----|-------------------------------|-------------------------|
| No.                                                                                              | Name of Analytes                 | CAS-No.  | No. | Name of Analytes              | CAS-No.                 |
| 1                                                                                                | Dibutyl phthalate (DBP)          | 84-74-2  | 5   | Di-iso-nonyl phthalate (DINP) | 28553-12-0 & 68515-48-0 |
| 2                                                                                                | Butylbenzylphthalate (BBP)       | 85-68-7  | 6   | Di-iso-decyl phthalate (DIDP) | 26761-40-0 & 68515-49-1 |
| 3                                                                                                | Di-2-ethylhexyl phthalate (DEHP) | 117-81-7 | 7   | Diisobutyl phthalate          | 84-69-5                 |
| 4                                                                                                | Di-n-octyl phthalate (DNOP)      | 117-84-0 | -   | -                             | -                       |

**Total Cd Content & As Applicant's requirement**

**Test Method** : The sample is comminuted and digested with acid mixtures, then analyzed by AAS technique or ICP-OES .

| Parameter         | Unit  | Result    |           | Maximum Allowable Limit |
|-------------------|-------|-----------|-----------|-------------------------|
|                   |       | 1 + 2 + 3 | 4 + 5 + 6 |                         |
| Cadmium (Cd)      | mg/kg | ND        | ND        | 100                     |
| <b>Conclusion</b> | -     | PASS      | PASS      | -                       |

Note:

ND = Not Detected (< MDL)  
 mg/kg = milligram per kilogram

Detection Limit(mg/kg):10  
 MDL = Method Detection Limit

SAMPLE REFERENCE PHOTO:



-- END OF REPORT --