



TEST REPORT

MID OCEAN BRANDS B.V.

Technical Report: (3224)088-0153  
Date Received: March 28,2024

April 16, 2024  
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MID OCEAN BRANDS B.V.  
7/F., KINGS TOWER, 111 KING LAM STREET, CHEUNG SHA  
WAN, KOWLOON, HONG KONG

SAMPLE INFORMATION:

|                             |                     |                         |        |
|-----------------------------|---------------------|-------------------------|--------|
| Sample Description:         | COLORING KITE       | Sample Quantity:        | N/A    |
| Vendor:                     | 111041              | Style No.(s):           | MO8925 |
| Manufacturer:               |                     | SKN/SKU No.:            | N/A    |
| Buyer:                      | N/A                 | PO No.:                 | N/A    |
| Labeled Age Grade:          | NOT PRESENT         | Ref#:                   | N/A    |
| Appropriate Age Grade:      | N/A                 | Country of Origin:      | CHINA  |
| Client Specified Age Grade: | OVER 3 YEARS OF AGE | Assortment No.:         | N/A    |
| Tested Age Grade:           | OVER 3 YEARS OF AGE | Country of Destination: | EU     |
| UPC Code:                   | N/A                 | Color:                  | 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.<br>( Excluded clause 7.1&7.2&7.9)                                                | PASS                 |
| The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2020                                                                                                                                                      | PASS                 |
| Labeling requirements of "CE marking, manufacturer/ Importer name and address, and product identification" under "Directive 2009/48/EC Safety of Toy.                                                                                             | PASS<br>See note 2&3 |
| Migration of Certain Elements - EN71-3:2019+A1:2021                                                                                                                                                                                               | PASS                 |
| Aromatic Amines Content from Azo Colorants - Regulation (EC) No. 1907/2006 Annex XVII Entry 43, Points 1 & 2                                                                                                                                      | PASS                 |
| Polycyclic Aromatic Hydrocarbons (PAHs) Content – Regulation (EC) No. 1907/2006 Annex XVII Entry 50, Point 5                                                                                                                                      | PASS                 |
| Phthalates Content – Reference to regulation (EC) No. 1907/2006 Annex XVII Entry 51 & 52                                                                                                                                                          | PASS                 |
| Total Cd Content & As Applicant's requirement                                                                                                                                                                                                     | PASS                 |
| Total Cadmium Content in Plastic Material - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with its Latest Amendment, Entry 23         | PASS                 |
| Benzene Content in Toys or Parts of Toys - European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Amendments up to EU No. 412/2012, Annex XVII, Entry 5, Point 1 | PASS                 |
| COLOURFASTNESS TO RUBBING                                                                                                                                                                                                                         | PASS                 |

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- Note:**
- 1.The sample is tested as "Over 3 years of age" per the client's request .
  2. The manufacturer / importer information was present on the packaging only. It has to be noted that, according to TSD 2009/48/EC , the manufacturers/ importer shall indicate their name, registered trade name or registered trade mark and the address at which they can be contacted on the toy, or, where that is not possible, on its packaging or in a document accompanying the toy.
  - 3.The product identification is present on the packaging only. It has to be noted that, according to TSD 2009/48/EC, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or, where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.
  - 4.Samples are provided by customers.
  - 5.The tested part of the sample was specified by client.
  - 6.The test conclusion was given based on the results of tested part.

**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**

*Mary Huang*

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#### 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 |        |                     |



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**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                            | NR     |
| 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    |



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

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

**2009/48/EC General Labeling Requirement**

| Requirement                             | Result          |
|-----------------------------------------|-----------------|
| CE Mark                                 | M               |
| Manufacturer/ Importer name and address | M<br>SEE NOTE 2 |
| Product Identification                  | SEE NOTE 3      |

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                                 | -          | -                                                          | -          | -                                           |





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#### 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         | -          | -           |



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#### Tested Component(s) Breakdown List

| Test Item | Description                   | Location | Style |
|-----------|-------------------------------|----------|-------|
| 1         | White fabric with black print | -        | -     |
| 2         | Blue fabric                   | -        | -     |
| 3         | White rope                    | -        | -     |
| 4         | Blue plastic                  | Handle   | -     |
| 5         | Beige fiber                   | Pole     | -     |
| 6         | Translucent plastic           | Cross    | -     |
| 7         | White plastic                 | Pen lid  | -     |
| 8         | Yellow plastic                | Pen body | -     |
| 9         | Green plastic                 | Pen body | -     |
| 10        | Red plastic                   | Pen body | -     |
| 11        | Blue plastic                  | Pen body | -     |
| 12        | Yellow ink                    | -        | -     |
| 13        | Green ink                     | -        | -     |
| 14        | Red ink                       | -        | -     |
| 15        | Blue ink                      | -        | -     |
| 16        | White fiber                   | Refill   | -     |
| 17        | Silver metal                  | Screw    | -     |

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

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

| Analyte               | Limit:<br>Type III | Result (mg/kg) |        |        |        |        |
|-----------------------|--------------------|----------------|--------|--------|--------|--------|
|                       |                    | Sample ID      |        |        |        |        |
|                       |                    | 1              | 2      | 3      | 4      | 5      |
| Boron (B)             | 15000              | <1500          | <1500  | <1500  | <1500  | <1500  |
| Aluminium (Al)        | 28130              | <2813          | <2813  | <2813  | <2813  | <2813  |
| Chromium III (Cr III) | 460                | <46            | <46    | <46    | <46    | <46    |
| Chromium VI (Cr VI)   | 0.053              | <0.02          | <0.02  | <0.02  | <0.02  | <0.02  |
| Manganese (Mn)        | 15000              | <1500          | <1500  | <1500  | <1500  | <1500  |
| Cobalt (Co)           | 130                | <13            | <13    | <13    | <13    | <13    |
| Nickel (Ni)           | 930                | <93            | <93    | <93    | <93    | <93    |
| Copper (Cu)           | 7700               | <770           | <770   | <770   | <770   | <770   |
| Zinc (Zn)             | 46000              | <4600          | <4600  | <4600  | <4600  | <4600  |
| Arsenic (As)          | 47                 | <4.7           | <4.7   | <4.7   | <4.7   | <4.7   |
| Selenium (Se)         | 460                | <46            | <46    | <46    | <46    | <46    |
| Strontium (Sr)        | 56000              | <5600          | <5600  | <5600  | <5600  | <5600  |
| Cadmium (Cd)          | 17                 | <1.7           | <1.7   | <1.7   | <1.7   | <1.7   |
| Tin (Sn)              | 180000             | <18000         | <18000 | <18000 | <18000 | <18000 |
| Organic tin           | 12                 | <1.2           | <1.2   | <1.2   | <1.2   | <1.2   |
| Antimony (Sb)         | 560                | <56            | <56    | <56    | <56    | <56    |
| Barium (Ba)           | 18750              | <1875          | <1875  | <1875  | <1875  | <1875  |
| Mercury (Hg)          | 94                 | <9.4           | <9.4   | <9.4   | <9.4   | <9.4   |
| Lead (Pb)             | 23                 | <2.3           | <2.3   | <2.3   | <2.3   | <2.3   |
| Conclusion            |                    | PASS           | PASS   | PASS   | PASS   | PASS   |





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| Analyte               | Limit:<br>Type III | Result (mg/kg) |        |        |        |        |
|-----------------------|--------------------|----------------|--------|--------|--------|--------|
|                       |                    | Sample ID      |        |        |        |        |
|                       |                    | 6              | 7      | 8      | 9      | 10     |
| Boron (B)             | 15000              | <1500          | <1500  | <1500  | <1500  | <1500  |
| Aluminium (Al)        | 28130              | <2813          | <2813  | <2813  | <2813  | <2813  |
| Chromium III (Cr III) | 460                | <46            | <46    | <46    | <46    | <46    |
| Chromium VI (Cr VI)   | 0.053              | <0.02          | <0.02  | <0.02  | <0.02  | <0.02  |
| Manganese (Mn)        | 15000              | <1500          | <1500  | <1500  | <1500  | <1500  |
| Cobalt (Co)           | 130                | <13            | <13    | <13    | <13    | <13    |
| Nickel (Ni)           | 930                | <93            | <93    | <93    | <93    | <93    |
| Copper (Cu)           | 7700               | <770           | <770   | <770   | <770   | <770   |
| Zinc (Zn)             | 46000              | <4600          | <4600  | <4600  | <4600  | <4600  |
| Arsenic (As)          | 47                 | <4.7           | <4.7   | <4.7   | <4.7   | <4.7   |
| Selenium (Se)         | 460                | <46            | <46    | <46    | <46    | <46    |
| Strontium (Sr)        | 56000              | <5600          | <5600  | <5600  | <5600  | <5600  |
| Cadmium (Cd)          | 17                 | <1.7           | <1.7   | <1.7   | <1.7   | <1.7   |
| Tin (Sn)              | 180000             | <18000         | <18000 | <18000 | <18000 | <18000 |
| Organic tin           | 12                 | <1.2           | <1.2   | <1.2   | <1.2   | <1.2   |
| Antimony (Sb)         | 560                | <56            | <56    | <56    | <56    | <56    |
| Barium (Ba)           | 18750              | <1875          | <1875  | <1875  | <1875  | <1875  |
| Mercury (Hg)          | 94                 | <9.4           | <9.4   | <9.4   | <9.4   | <9.4   |
| Lead (Pb)             | 23                 | <2.3           | <2.3   | <2.3   | <2.3   | <2.3   |
| Conclusion            |                    | PASS           | PASS   | PASS   | PASS   | PASS   |

| Analyte               | Limit:<br>Type III | Result (mg/kg) |        |
|-----------------------|--------------------|----------------|--------|
|                       |                    | Sample ID      |        |
|                       |                    | 11             | 16     |
| Boron (B)             | 15000              | <1500          | <1500  |
| Aluminium (Al)        | 28130              | <2813          | <2813  |
| Chromium III (Cr III) | 460                | <46            | <46    |
| Chromium VI (Cr VI)   | 0.053              | <0.02          | <0.02  |
| Manganese (Mn)        | 15000              | <1500          | <1500  |
| Cobalt (Co)           | 130                | <13            | <13    |
| Nickel (Ni)           | 930                | <93            | <93    |
| Copper (Cu)           | 7700               | <770           | <770   |
| Zinc (Zn)             | 46000              | <4600          | <4600  |
| Arsenic (As)          | 47                 | <4.7           | <4.7   |
| Selenium (Se)         | 460                | <46            | <46    |
| Strontium (Sr)        | 56000              | <5600          | <5600  |
| Cadmium (Cd)          | 17                 | <1.7           | <1.7   |
| Tin (Sn)              | 180000             | <18000         | <18000 |
| Organic tin           | 12                 | <1.2           | <1.2   |
| Antimony (Sb)         | 560                | <56            | <56    |
| Barium (Ba)           | 18750              | <1875          | <1875  |
| Mercury (Hg)          | 94                 | <9.4           | <9.4   |
| Lead (Pb)             | 23                 | <2.3           | <2.3   |
| Conclusion            |                    | PASS           | PASS   |



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| Analyte               | Limit:<br>Type II | Result (mg/kg) |        |        |        |
|-----------------------|-------------------|----------------|--------|--------|--------|
|                       |                   | Sample ID      |        |        |        |
|                       |                   | 12             | 13     | 14     | 15     |
| Boron (B)             | 300               | <30            | <30    | <30    | <30    |
| Aluminium (Al)        | 560               | <56            | <56    | <56    | <56    |
| Chromium III (Cr III) | 9.4               | <0.94          | <0.94  | <0.94  | <0.94  |
| Chromium VI (Cr VI)   | 0.005             | <0.005         | <0.005 | <0.005 | <0.005 |
| Manganese (Mn)        | 300               | <30            | <30    | <30    | <30    |
| Cobalt (Co)           | 2.6               | <0.26          | <0.26  | <0.26  | <0.26  |
| Nickel (Ni)           | 18.8              | <1.88          | <1.88  | <1.88  | <1.88  |
| Copper (Cu)           | 156               | <15.6          | <15.6  | <15.6  | <15.6  |
| Zinc (Zn)             | 938               | <93.8          | <93.8  | <93.8  | <93.8  |
| Arsenic (As)          | 0.9               | <0.09          | <0.09  | <0.09  | <0.09  |
| Selenium (Se)         | 9.4               | <0.94          | <0.94  | <0.94  | <0.94  |
| Strontium (Sr)        | 1125              | <112.5         | <112.5 | <112.5 | <112.5 |
| Cadmium (Cd)          | 0.3               | <0.03          | <0.03  | <0.03  | <0.03  |
| Tin (Sn)              | 3750              | <375           | <375   | <375   | <375   |
| Organic tin           | 0.2               | <0.02          | <0.02  | <0.02  | <0.02  |
| Antimony (Sb)         | 11.3              | <1.13          | <1.13  | <1.13  | <1.13  |
| Barium (Ba)           | 375               | <37.5          | <37.5  | <37.5  | <37.5  |
| Mercury (Hg)          | 1.9               | <0.19          | <0.19  | <0.19  | <0.19  |
| Lead (Pb)             | 0.5               | <0.05          | <0.05  | <0.05  | <0.05  |
| Conclusion            |                   | PASS           | PASS   | PASS   | PASS   |

Note / Key:

Req. = Requirementmg/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.



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**Aromatic Amines Content from Azo Colorants - Regulation (EC) No. 1907/2006 Annex XVII Entry 43, Points 1 & 2**

**Test Method** : I: For textile and others: EN ISO 14362-1:2017.  
 II: For leather: ISO 17234-1: 2020.  
 III: For textile and others: EN ISO 14362-3:2017 ;  
 For leather: ISO 17234-2: 2011

|                       |                |
|-----------------------|----------------|
| <b>Maximum Limit:</b> | <b>30mg/kg</b> |
|-----------------------|----------------|

| Tested Item(s) | Test Method | Result              |       | Unit  | Conclusion |
|----------------|-------------|---------------------|-------|-------|------------|
|                |             | Detected Analyte(s) | Conc. |       |            |
| 1 + 2          | I           | ND                  | ND    | mg/kg | PASS       |

Note / Key:

ND = Not Detected      mg/kg = milligram per kilogram      Detection Limit (mg/kg):Each 10

Remark:

- 1. \*Azo colorants that are able to form p-aminoazobenzene, generate aniline and 1,4-phenylenediamine under the condition of test method I. If aniline and/or 1,4-phenylenediamine is not found by test method I, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "Not detected". Otherwise, the test method III will be employed to verify the presence of 4-aminoazobenzene.
- 2. The list of aromatic amines in azo dyestuff is summarized in table of Appendix.

| List of Aromatic Amines in Azo Dyestuff: |                                         |          |     |                                           |          |
|------------------------------------------|-----------------------------------------|----------|-----|-------------------------------------------|----------|
| No.                                      | Name of Analytes                        | CAS-No.  | No. | Name of Analytes                          | CAS-No.  |
| 1                                        | 4-Aminodiphenyl                         | 92-67-1  | 12  | 3,3'-Dimethyl-4,4'-diaminodiphenylmethane | 838-88-0 |
| 2                                        | Benzidine                               | 92-87-5  | 13  | p-Chloroaniline                           | 106-47-8 |
| 3                                        | 4-Chloro-o-Toluidine                    | 95-69-2  | 14  | p-Cresidine                               | 120-71-8 |
| 4                                        | 2-Naphthylamine                         | 91-59-8  | 15  | 4,4'-Methylene-bis-(2-chloraniline)       | 101-14-4 |
| 5                                        | o-Aminoazotoluene                       | 97-56-3  | 16  | 4,4'-Oxydianiline                         | 101-80-4 |
| 6                                        | 2-Amino-4-nitrotoluene                  | 99-55-8  | 17  | 4,4'-Thiodianiline                        | 139-65-1 |
| 7                                        | 2,4-Diaminoanisole                      | 615-05-4 | 18  | 2,4-Toluenediamine                        | 95-80-7  |
| 8                                        | 4,4'-Diaminodiphenylmethane             | 101-77-9 | 19  | o-Toluidine                               | 95-53-4  |
| 9                                        | 3,3'-Dichlorobenzidine                  | 91-94-1  | 20  | 2,4,5-Trimethylaniline                    | 137-17-7 |
| 10                                       | 3,3'-Dimethoxybenzidine (o-Dianisidine) | 119-90-4 | 21  | o-Anisidine                               | 90-04-0  |
| 11                                       | 3,3'-Dimethylbenzidine (o-Tolidine)     | 119-93-7 | 22  | *p-Aminoazobenzene (4-Amino-azobenzene)   | 60-09-3  |



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**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 |
|--------------------------|-------|-----------|-----------|---------|-------------------------|
|                          |       | 4 + 5 + 6 | 7 + 8 + 9 | 10 + 11 |                         |
| Benzo (a) anthracene     | mg/kg | ND        | ND        | ND      | 0.5                     |
| Chrysene                 | mg/kg | ND        | ND        | ND      | 0.5                     |
| Benzo (b) fluoranthene   | mg/kg | ND        | ND        | ND      | 0.5                     |
| Benzo (j) fluoranthene   | mg/kg | ND        | ND        | ND      | 0.5                     |
| Benzo (k) fluoranthene   | mg/kg | ND        | ND        | ND      | 0.5                     |
| Benzo (e) pyrene         | mg/kg | ND        | ND        | ND      | 0.5                     |
| Benzo (a) pyrene         | mg/kg | ND        | ND        | ND      | 0.5                     |
| Dibenzo (a,h) anthracene | mg/kg | ND        | ND        | ND      | 0.5                     |
| Conclusion               | -     | PASS      | PASS      | PASS    | -                       |

Note / Key:

ND = Not detected

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Detection Limit (mg/kg):

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

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



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**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  | 4 + 5 + 6 | 7 + 8 + 9 | 10 + 11 |                         |
| <b>A. For toys and childcare articles</b>                                                                                    | -     | -      | -         | -         | -       | -                       |
| DBP                                                                                                                          | mg/kg | ND     | ND        | ND        | ND      | -                       |
| BBP                                                                                                                          | mg/kg | ND     | ND        | ND        | ND      | -                       |
| DEHP                                                                                                                         | mg/kg | ND     | ND        | ND        | ND      | -                       |
| DiBP                                                                                                                         | mg/kg | ND     | ND        | 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        | ND        | ND      | -                       |
| DINP                                                                                                                         | mg/kg | ND     | ND        | ND        | ND      | -                       |
| DIDP                                                                                                                         | mg/kg | ND     | ND        | ND        | ND      | -                       |
| Sum of DBP, BBP, DEHP, DiBP                                                                                                  | mg/kg | ND     | ND        | ND        | ND      | 1000                    |
| Sum of DNOP, DIDP, DINP                                                                                                      | mg/kg | ND     | ND        | ND        | ND      | 1000                    |
| <b>Conclusion</b>                                                                                                            | -     | PASS   | PASS      | 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 | -   | -                             | -                       |



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**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 | 5    |                         |
| Cadmium (Cd) | mg/kg | <10       | <10  | 100                     |
| Conclusion   | -     | PASS      | PASS | -                       |

| Parameter    | Unit  | Result  |         |      |      | Maximum Allowable Limit |
|--------------|-------|---------|---------|------|------|-------------------------|
|              |       | 12 + 13 | 14 + 15 | 16   | 17   |                         |
| Cadmium (Cd) | mg/kg | <10     | <10     | <10  | <10  | 100                     |
| Conclusion   | -     | PASS    | PASS    | PASS | PASS | -                       |

Note / Key:  
ND = Not Detected  
Detection Limit (mg/kg) : 10

**Total Cadmium Content in Plastic Material - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with its Latest Amendment, Entry 23**

**Test Method** : EN 1122: 2001, Method B  
The sample is digested with acid, then analyzed by ICP-OES

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

| Parameter    | Unit  | MDL | Result |           |         |
|--------------|-------|-----|--------|-----------|---------|
|              |       |     | 4+6    | 7 + 8 + 9 | 10 + 11 |
| Cadmium (Cd) | mg/kg | 10  | ND     | ND        | ND      |
| Conclusion   | -     | -   | PASS   | PASS      | PASS    |

Note / Key:  
ND = Not Detected  
Detection Limit (mg/kg) : 10





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**Benzene Content in Toys or Parts of Toys - European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Amendments up to EU No. 412/2012, Annex XVII, Entry 5, Point 1**

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

| Parameter  | Unit  | Result |           |           |         | Maximum Allowable Limit |
|------------|-------|--------|-----------|-----------|---------|-------------------------|
|            |       | 1 + 2  | 4 + 5 + 6 | 7 + 8 + 9 | 10 + 11 |                         |
| Benzene    | mg/kg | ND     | ND        | ND        | ND      | 5                       |
| Conclusion | -     | PASS   | PASS      | PASS      | PASS    | -                       |

| Parameter  | Unit  | Result  |         | Maximum Allowable Limit |
|------------|-------|---------|---------|-------------------------|
|            |       | 12 + 13 | 14 + 15 |                         |
| Benzene    | mg/kg | ND      | ND      | 5                       |
| Conclusion | -     | PASS    | PASS    | -                       |

Note / Key:  
ND = Not Detected

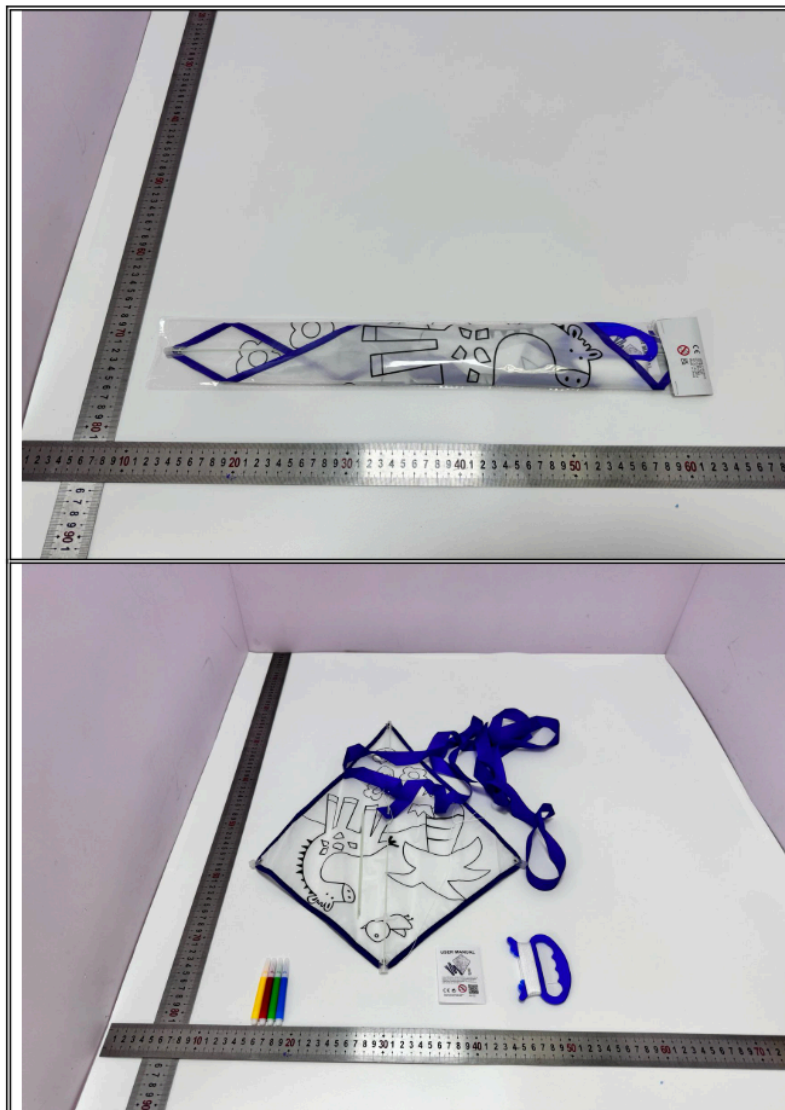
Detection Limit (mg/kg) : 5

|                                                               | Test Result | Requirement |
|---------------------------------------------------------------|-------------|-------------|
| <b><u>COLOURFASTNESS TO RUBBING</u></b> (EN ISO 105-X12:2016) |             |             |
|                                                               | <b>1</b>    |             |
| LENGTH                                                        |             |             |
| DRY                                                           | 4-5         | 2-3         |
| WET                                                           | 4-5         | 2-3         |
| WIDTH                                                         |             |             |
| DRY                                                           | 4-5         | 2-3         |
| WET                                                           | 4-5         | 2-3         |
|                                                               | <b>2</b>    |             |
| DRY                                                           | 4-5         | 2-3         |
| WET                                                           | 4-5         | 2-3         |



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SAMPLE REFERENCE PHOTO:



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