

TEST REPORT

Applicant: SUNNYLIFE GROUP PTY LTD
B1 85 DUNNING AVENUE
ROSEBERY
NSW 2018
AUSTRALIA

Number: HKGH0302756101

Date: Jul 18, 2023

Attn: NOLIA CHIU

Sample and Information provided by customer :

| | | |
|--------------------|---|------------------------------|
| Item Name | : | Inflatable Beach Ball |
| Quantity | : | 6 Pieces |
| Labelled Age Group | : | 3+ YEARS |
| Packaging Provided | : | Yes |
| Supplier | : | Digo Creative Enterprise Ltd |
| Country of Origin | : | China |

For and on behalf of :
Intertek Testing Services HK Ltd.



Cindy I.K. Chan
Vice President



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Conclusion:

The submitted sample was tested under the following requirements requested by the applicant, subject to the information stated in the remark and attached page(s) for details :

| <u>Requirement</u> | <u>Result</u> |
|--|---------------|
| (1) Australian/New Zealand Standard AS/NZS 8124.2: 2016 - Flammability test | Pass |
| (2) AS/NZS ISO 8124-3:2003 (Australian Trade Practice Act 1974 with Consumer Protection Notice no. 1, 2009 - Consumer Product Safety Standard for Lead and certain elements in children's toys.) - Toxic elements test ∞ | Pass |
| Australian Customs Notice no. 2007/46 - amendments to the Customs (Prohibited Imports) Regulations 1956 Schedule 2 Item 2 - Toxic elements test ∞ | Pass |
| AS/NZS ISO 8124-3:2021 - Toxic elements test ∞ | Pass |
| (3) Consumer Product Safety Standard: Toys for children up to and including 36 months of age (in force under section 65E(1) of the Trade Practices Act 1974) as commenced by Consumer Protection Notice No. 14 of 2003 and as amended by Consumer Protection No. 1 of 2005. | Pass |
| (4) EN 71-3 : 2019 + A1 : 2021 - Migration of certain elements | Pass |
| (5) REACH Regulation (EC) no. 1907/2006, Annex XVII Items 51 & 52, amendment no. 552/2009 & 2018/2005 - Phthalates content | Pass |
| (6) Regulation (EC) No. 1907/2006 on REACH Annex XVII as amended by Commission Regulation (EU) No. 835/2012 and Commission Regulation (EU) 2016/217 - Cadmium content requirement | Pass |
| (7) REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 Annex XVII Item 50 - Polycyclic aromatic hydrocarbons content | Pass |
| (8) BS EN 71-1:2014 + A1:2018 - Mechanical and physical properties Excluding Clause 7.1 Warnings, markings and instruction for use | Pass |



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| <u>Requirement</u> | <u>Result</u> |
|--|---------------|
| (9) BS EN 71-2:2020 - Flammability Test | Pass |
| (10) BS EN71-3:2019 and Directive (EU) 2019/1922 amending 2009/48/EC effective from 20 May 2021 - Migration of certain elements | Pass |
| (11) REACH Regulation (EC) no. 1907/2006, Annex XVII, Item 51 & 52 & amendment no. 552/2009 & 2018/2005 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended - Phthalates content | Pass |
| (12) Cadmium Content Requirement in Annex XVII Entry 23 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) 2016/217 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) - Cadmium content requirement | Pass |
| (13) REACH Regulation (EC) no. 1907/2006 & amendment no. 1272/2013, Annex XVII, Item 50 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended - Polycyclic aromatic hydrocarbons content | Pass |
| (14) Australian/New Zealand Standard AS/NZS ISO 8124-1:2023 - safety aspects related to mechanical and physical properties. | Pass |

Decision Rule(s):

When a statement of conformity to a specification or standard is provided on test report, the decision rule shall be applied. For details, please refer to Intertek's "Decision Rule Document" and is available on Intertek's website. <https://intertekhk.grd.by/decision-rule-doc..>
If decision rule already inhaled in the requested specification or standard, Intertek's "Decision Rule Document" is not applicable and indication of "∞" was shown as above table.



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(1) Flammability Test

Test Standard : Australian/New Zealand Standard AS/NZS 8124.2: 2016

| Clause | Requirement | Assessment |
|--------|---|------------|
| 4.1 | General | P |
| 4.2 | Toys to be worn on the head | NA |
| 4.3 | Toy disguise costumes and toys intended to be worn by a child in a play | NA |
| 4.4 | Toys intended to be entered by a child | NA |
| 4.5 | Soft filled toys with a piled or textile surface | NA |

Abbreviation : P = Pass NA = Not Applicable

Additional Information: Butane gas was used in the test burner.

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(2) Toxic Elements Analysis

Test Method : AS/NZS ISO 8124-3:2003/AS/NZS ISO 8124-3:2021. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma Optical Emission Spectrometry.

Materials other than modelling clay:

| | Result (mg/kg) | | | Limit (mg/kg) |
|-----------------------|----------------|------|------|---------------|
| | (1) | (2) | (3) | |
| Soluble Barium (Ba) | <5 | <5 | <5 | 1000 |
| Soluble Lead (Pb) | <5 | <5 | <5 | 90 |
| Soluble Cadmium (Cd) | <5 | <5 | <5 | 75 |
| Soluble Antimony (Sb) | <5 | <5 | <5 | 60 |
| Soluble Selenium (Se) | <5 | <5 | <5 | 500 |
| Soluble Chromium (Cr) | <5 | <5 | <5 | 60 |
| Soluble Mercury (Hg) | <5 | <5 | <5 | 60 |
| Soluble Arsenic (As) | <2.5 | <2.5 | <2.5 | 25 |

mg/kg = milligram per kilogram

Tested Components:

- (1) Coatings on plastic sheet (body).
- (2) Ivory plastic sheet excluding coatings (body).
- (3) Transparent plastic (valve).



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Decision Rule:

∞ : Materials are deemed to comply with the requirements if the adjusted analytical result is less than or equal to the limit of this table.

The analytical result of materials shall be adjusted by subtracting the analytical correction in below table to obtain an adjusted analytical result.

| Elements | Sb | As | Ba | Cd | Cr | Pb | Hg | Se |
|--------------------------|----|----|----|----|----|----|----|----|
| Analytical Correction(%) | 60 | 60 | 30 | 30 | 30 | 30 | 50 | 60 |

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Test Period : Jun 26, 2023 to Jul 06, 2023

(3) Physical and Mechanical Test

Test Standard : Consumer Product Safety Standard: Toys for children up to and including 36 months of age (in force under section 65E(1) of the Trade Practices Act 1974) as commenced by Consumer Protection Notice No. 14 of 2003 and as amended by Consumer Protection No. 1 of 2005.

Age group for testing : For Ages Over 2 Years

The submitted samples were undergone the normal use and the following reasonable foreseeable abuse tests in accordance with the Clause 5.24 OF AS/NZS ISO 8124.1 : 2002 before the assessment of the relevant requirement in Clause 4 and Annex A :

| <u>Section</u> | <u>Testing Items</u> | <u>Parameter</u> |
|----------------|----------------------|------------------|
| 5.24.2 | Drop test | 4x93 +/- 5cm |
| 5.24.5 | Torque test | 0.45 +/- 0.02Nm |
| 5.24.6 | Tension test | 70 +/- 2N |
| 5.24.7 | Compression test | 114 +/- 2N |



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| Clause | Requirement | Assessment |
|--------|--|------------|
| 4.1 | Normal use | P |
| 4.2 | Reasonably foreseeable abuse | P |
| 4.4 | Small Parts | |
| 4.4.1 | Small parts for children under 36 months | P |
| 4.5 | Shape, size and strength of certain toys | P |
| 4.5.1 | Squeeze toys, rattles and certain other toys | NA |
| 4.5.2 | Small balls | P |
| 4.5.3 | Pompoms | NA |
| 4.5.4 | Preschool play figures | NA |
| 4.5.5 | Toy pacifiers | NA |
| 4.25 | Mouth-actuated toys | |
| 4.25.a | Mouth-actuated toys and removable mouthpieces of mouth-actuated toys | NA |
| 4.25.b | Non-detachable mouthpieces of mouth-actuated toys | NA |
| 4.25.c | Mouth-actuated toys which contain loose components | NA |
| A.2.3 | Battery-operated toy | NA |

Abbreviation : P = Pass NA = Not Applicable

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(4) 19 Toxic Element Migration Test

Test Method : EN 71-3 : 2019 + A1 : 2021. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material:

| | Result (mg/kg) | | | Limit (mg/kg) |
|---------------------------------|----------------|--------|--------|---------------|
| | (1) | (2) | (3) | |
| Soluble Aluminium (Al) | 390 | <300 | <300 | 28130 |
| Soluble Antimony (Sb) | <10 | <10 | <10 | 560 |
| Soluble Arsenic (As) | <10 | <10 | <10 | 47 |
| Soluble Barium (Ba) | <10 | <10 | <10 | 18750 |
| Soluble Boron (B) | <50 | <50 | <50 | 15000 |
| Soluble Cadmium (Cd) | <5 | <5 | <5 | 17 |
| Soluble Chromium (III) (Cr III) | <10 | <10 | <10 | 460 |
| Soluble Chromium (VI) (Cr VI) | <0.025 | <0.025 | <0.025 | 0.053 |
| Soluble Cobalt (Co) | <10 | <10 | <10 | 130 |
| Soluble Copper (Cu) | <10 | <10 | <10 | 7700 |
| Soluble Lead (Pb) | <10 | <10 | <10 | 23 |
| Soluble Manganese (Mn) | <10 | <10 | <10 | 15000 |
| Soluble Mercury (Hg) | <10 | <10 | <10 | 94 |
| Soluble Nickel (Ni) | <10 | <10 | <10 | 930 |
| Soluble Selenium (Se) | <10 | <10 | <10 | 460 |
| Soluble Strontium (Sr) | <100 | <100 | <100 | 56000 |
| Soluble Tin (Sn) | <10 | <10 | <10 | 180000 |
| Soluble Organic tin ++ | <5.0 | <5.0 | <5.0 | 12 |
| Soluble Zinc (Zn) | <100 | <100 | <100 | 46000 |



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mg/kg = milligram per kilogram

++ : Unless the test result was marked with "Δ", Organic tin content was not directly determined and was derived from migration result of total tin.

Organic tin test result was expressed as tributyl tin.

Chromium (III) value was calculated as difference between migration results of total Chromium and Chromium (VI) .

Tested Components:

- (1) Coatings on plastic sheet (body).
- (2) Ivory plastic sheet excluding coatings (body).
- (3) Transparent plastic (valve).

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(5) Phthalate Content Test

Test Method : ISO 8124-6 : 2018 method A with internal standard calibration, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Seven Phthalates content:

| Compound | Result (% w/w) | | Limit (% w/w) |
|--------------------------------|----------------|---------|---------------|
| | (1) | (2/3) | |
| Dibutyl phthalate (DBP) | <0.0100 | <0.0100 | -- |
| Diethyl hexyl phthalate (DEHP) | <0.0100 | <0.0100 | -- |
| Benzyl butyl phthalate (BBP) | <0.0100 | <0.0100 | -- |
| Diisobutyl phthalate (DIBP) | <0.0100 | <0.0100 | -- |
| Sum of DBP, DEHP, BBP & DIBP | <0.0100 | <0.0100 | 0.1 |
| Diisononyl phthalate (DINP) | <0.0100 | <0.0100 | -- |
| Di-n-octyl phthalate (DnOP) | <0.0100 | <0.0100 | -- |
| Diisodecyl phthalate (DIDP) | <0.0100 | <0.0100 | -- |
| Sum of DINP, DnOP & DIDP | <0.0100 | <0.0100 | 0.1 |

The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) no. 1907/2006, amendment no. 552/2009 taking into account the (EU) regulation 2018/2005 modifying entry 51 for which the DIBP shall not be placed on the market after 7 July 2020 in toys or childcare articles, individually or in any combination with the first three phthalates which already exist in the entry 51, in a concentration equal to or greater than 0,1 % by weight of the plasticised material.

Tested Components:

- (1) Coatings on plastic sheet (body).
- (2) Ivory plastic sheet excluding coatings (body).
- (3) Transparent plastic (valve).

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(6) Cadmium (Cd) Content

Test Method : In House method TC008.TP. Acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

| Tested Component | Result in %, w/w | Limit in %, w/w |
|------------------|------------------|-----------------|
| (1) | ND | 0.1 |
| (2/3) | ND | 0.01 |

ND : Not detected (< 0.0005%)

The above limit was quoted according to Regulation (EC) No. 1907/2006 on REACH Annex XVII as amended by Commission Regulation (EU) No. 835/2012 and Commission Regulation (EU) 2016/217

Tested Components:

- (1) Coatings on plastic sheet (body).
- (2) Ivory plastic sheet excluding coatings (body).
- (3) Transparent plastic (valve).

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(7) Polycyclic Aromatic Hydrocarbons (PAH) Content

Test Method : The document AfPS GS 2019:01 PAK issued by the Federal Institute for Occupational Safety and Health, solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

| Compound | Result (ppm) | | Limit (ppm) |
|------------------------|--------------|-------|-------------|
| | (1) | (2/3) | |
| Benzo(a)pyrene | <0.20 | <0.20 | 0.5 |
| Benzo(e)pyrene | <0.20 | <0.20 | 0.5 |
| Benzo(a)anthracene | <0.20 | <0.20 | 0.5 |
| Chrysene | <0.20 | <0.20 | 0.5 |
| Benzo(b)fluoranthene | <0.20 | <0.20 | 0.5 |
| Benzo(j)fluoranthene | <0.20 | <0.20 | 0.5 |
| Benzo(k)fluoranthene | <0.20 | <0.20 | 0.5 |
| Dibenzo(a,h)anthracene | <0.20 | <0.20 | 0.5 |

The above limit was quoted according to Annex XVII Items 50 of the REACH Regulation (EC) no. 1907/2006 & amendment (EU) no. 1272/2013 for polycyclic aromatic hydrocarbons (PAH).

ppm = parts per million = mg/kg

Tested Components:

- (1) Coatings on plastic sheet (body).
- (2) Ivory plastic sheet excluding coatings (body).
- (3) Transparent plastic (valve).

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(8) Physical and Mechanical Tests

Test Standard : Safety of toys BS EN 71-1:2014 + A1:2018

Age group for testing : For Ages Over 2 Years

| The submitted samples were undergone the following abuse tests: | |
|---|----------------------------|
| Clause | Testing Items |
| 8.3 | Torque test (0.34 Nm) |
| 8.4.2.1 | Tension test (90 N) |
| 8.5 | Drop Test (850 mm x 5) |
| 8.7 | Impact test (1 kg) |
| 8.8 | Compression test (110 N) |

| Clause | Requirement | Assessment |
|--------|--|------------|
| 4 | General requirements | |
| 4.1 | Material cleanliness | P |
| 4.2 | Assembly | NA |
| 4.3 | Flexible plastic sheeting | P |
| 4.4 | Toy bags | NA |
| 4.5 | Glass | NA |
| 4.6 | Expanding Materials | NA |
| 4.7 | Edges | P |
| 4.8 | Points and Metallic wires | P |
| 4.9 | Protruding parts | NA |
| 4.10 | Parts moving against each other | NA |
| 4.11 | Mouth actuated toys and other toys intended to be put into mouth | NA |
| 4.12 | Balloons | NA |
| 4.13 | Cords of toy kites and other flying toys | NA |
| 4.14 | Enclosures | NA |
| 4.15 | Toys intended to bear the mass of a child | NA |
| 4.16 | Heavy immobile toys | NA |
| 4.17 | Projectiles | NA |
| 4.18 | Aquatic toys and inflatable toys | P |
| 4.19 | Percussion caps specifically designed for use in toys and toys using percussion caps | NA |
| 4.20 | Acoustics | NA |
| 4.21 | Toys containing non -electrical heat source | NA |
| 4.22 | Small balls | NA |
| 4.23 | Magnets | NA |



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| Clause | Requirement | Assessment |
|--------|---|------------|
| 4.24 | Yo-yo balls | NA |
| 4.25 | Toys attached to food | NA |
| 4.26 | Toy Disguise Costumes | NA |
| 4.27 | Flying toys | NA |
| 5 | Toys intended for children under 36 months | |
| 5.1 | General requirements for toys intended for children under 36 months | P |
| 5.2 | Soft-filled toys and soft-filled parts of a toy | NA |
| 5.3 | Plastic sheeting | NA |
| 5.4 | Cords, chains and electrical cables in toys | NA |
| 5.5 | Liquid filled toys | NA |
| 5.6 | Speed limitation of electrically driven ride-on toys | NA |
| 5.7 | Glass and porcelain | NA |
| 5.8 | Shape and size of certain toys | NA |
| 5.9 | Toys comprising monofilament fibres | NA |
| 5.10 | Small balls | P |
| 5.11 | Play figures | NA |
| 5.12 | Hemispheric-shaped toys | NA |
| 5.13 | Suction cups | NA |
| 5.14 | Straps intended to be worn fully or partially around the neck | NA |
| 5.15 | Sledges with cords for pulling (7.24) | NA |
| 6 | Packaging | NA |
| 7 | Warnings, markings and instructions for use | |
| 7.1 | General | #1 |
| 7.2 | Toys not intended for children under 36 months | NA |
| 7.3 | Latex balloons | NA |
| 7.4 | Aquatic toys | NA |
| 7.5 | Functional toys | NA |
| 7.6 | Hazardous sharp functional edges and points | NA |
| 7.7 | Projectile Toys | NA |
| 7.8 | Imitation protective masks and helmets | NA |
| 7.9 | Toy kites | NA |
| 7.10 | Roller skates, inline skates, skateboards and certain other ride-on toys | NA |
| 7.11 | Toys intended to be attached to or strung across a cradle, cot, or perambulator | NA |
| 7.12 | Liquid-filled teethingers | NA |
| 7.13 | Percussion caps specifically designed for use in toys | NA |
| 7.14 | Acoustics | NA |
| 7.15 | Toy bicycles | NA |
| 7.16 | Toys intended to bear the mass of a child | NA |
| 7.17 | Toys comprising monofilament fibres | NA |
| 7.18 | Toy scooters | NA |
| 7.19 | Rocking horses and similar toys | NA |



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| Clause | Requirement | Assessment |
|--------|---|------------|
| 7.20 | Magnetic / electrical experimental sets | NA |
| 7.21 | Toys with electrical cables exceeding 300 mm in length | NA |
| 7.22 | Toys with cords or chains intended for children of 18 months and over but under 36 months | NA |
| 7.23 | Toys intended to be attached to a cradle, cot or perambulator | NA |
| 7.24 | Sledges with cords for pulling | NA |
| 7.25 | Flying toys | NA |
| 7.26 | Improvised projectiles | NA |

Abbreviation : P = Pass NA = Not Applicable

The submitted samples were undergone the abuse tests for Clause 5.1 in according to 8.3 (Torque test), 8.4 (Tension test), 8.5 (Drop test), 8.7 (Impact test), 8.8 (Compression test) and specific tests for different types of toys whichever applicable.

Below is additional information checking according to the UK Toy (Safety) Regulations requirement. These information also appears as a note within BS EN71 but the checking is not within accreditation scope.

Marking

The manufacturer's and importer's name, registered trade name or registered trademark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself.

After checking, it was found that

| | Toy | Packaging |
|---|---------|-----------|
| Name of authorised representative in Great Britain | Present | Present |
| Address of authorised representative in Great Britain | Present | Present |
| Product identification code | Present | Present |

With reference to the guidance of using UKCA marking from 1 January 2021 by the Department for Business, Energy and Industrial Strategy published on 1 September 2020, toys or packagings shall also bear the UKCA marking. However, as per the official publishment on 14 November 2022, CE marking is continued to be recognised for 2 more years in UK market until 31 December, 2024.

After checking, it was found that

| | Toy | Packaging |
|--------------|---------|-----------|
| UKCA marking | Present | Present |



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Cleaning instruction

A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. The toy shall fulfill the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions. The manufacturer should, if applicable, provided instructions on how the toy has to be cleaned.

After checking, the cleaning instruction was not found on the submitted samples.

Remark(s):

#1 = Clause 7.1 - The packaging bore an age warning. However, the toy is appropriate for children under 3 years and these warning should be removed.

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(9) Flammability Test

Test Standard : Standard on Safety of Toys BS EN 71-2:2020

| Clause | Requirement | Assessment |
|--------|---|------------|
| 4.1 | General requirements | P |
| 4.2 | Toys to be worn on the head | NA |
| 4.3 | Toy disguise costumes and toys intended to be worn by a child in play | NA |
| 4.4 | Toys intended to be entered by a child | NA |
| 4.5 | Soft filled toys | NA |

Abbreviation : P = Pass NA = Not Applicable

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(10) 19 Toxic Element Migration Test

Test Method : BS EN71-3:2019. Acid extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry and Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry and/or Gas Chromatographic - Mass Spectrometry

Category (III): Scraped-off toy material:

| | Result (mg/kg) | | | Limit (mg/kg) |
|---------------------------------|----------------|--------|--------|----------------|
| | (1) | (2) | (3) | |
| Soluble Aluminium (Al) | 390 | <300 | <300 | 70000 / 28130^ |
| Soluble Antimony (Sb) | <10 | <10 | <10 | 560 |
| Soluble Arsenic (As) | <10 | <10 | <10 | 47 |
| Soluble Barium (Ba) | <10 | <10 | <10 | 18750 |
| Soluble Boron (B) | <50 | <50 | <50 | 15000 |
| Soluble Cadmium (Cd) | <5 | <5 | <5 | 17 |
| Soluble Chromium (III) (Cr III) | <10 | <10 | <10 | 460 |
| Soluble Chromium (VI) (Cr VI) | <0.025 | <0.025 | <0.025 | 0.053 |
| Soluble Cobalt (Co) | <10 | <10 | <10 | 130 |
| Soluble Copper (Cu) | <10 | <10 | <10 | 7700 |
| Soluble Lead (Pb) | <10 | <10 | <10 | 23 |
| Soluble Manganese (Mn) | <10 | <10 | <10 | 15000 |
| Soluble Mercury (Hg) | <10 | <10 | <10 | 94 |
| Soluble Nickel (Ni) | <10 | <10 | <10 | 930 |
| Soluble Selenium (Se) | <10 | <10 | <10 | 460 |
| Soluble Strontium (Sr) | <100 | <100 | <100 | 56000 |
| Soluble Tin (Sn) | <10 | <10 | <10 | 180000 |
| Soluble Organic tin ++ | <2.0 | <2.0 | <2.0 | 12 |
| Soluble Zinc (Zn) | <100 | <100 | <100 | 46000 |

mg/kg = milligram per kilogram



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++ : Unless the test result was marked with "Δ", Organic tin content was not directly determined and was derived from migration result of total tin.

Organic tin test result was expressed as tributyl tin.

Chromium (III) value was calculated as difference between migration results of total Chromium and Chromium (VI) .

^ : The new aluminium migration limit [2250mg/kg for Category (I), 560mg/kg for category (II) and 28130mg/kg for Category (III)] was quoted from directive (EU) 2019/1922 amending 2009/48/EC effective from 20 May 2021.

Tested Components:

- (1) Coatings on plastic sheet (body).
- (2) Ivory plastic sheet excluding coatings (body).
- (3) Transparent plastic (valve).

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(11) Phthalate Content Test

Test Method : ISO 8124-6 : 2018 method A with internal standard calibration, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Seven Phthalates content:

| Compound | Result (% w/w) | | Limit (% w/w) |
|--------------------------------|----------------|---------|---------------|
| | (1) | (2/3) | |
| Dibutyl phthalate (DBP) | <0.0100 | <0.0100 | -- |
| Diethyl hexyl phthalate (DEHP) | <0.0100 | <0.0100 | -- |
| Benzyl butyl phthalate (BBP) | <0.0100 | <0.0100 | -- |
| Diisobutyl phthalate (DIBP) | <0.0100 | <0.0100 | -- |
| Sum of DBP, DEHP, BBP & DIBP | <0.0100 | <0.0100 | 0.1 |
| Diisononyl phthalate (DINP) | <0.0100 | <0.0100 | -- |
| Di-n-octyl phthalate (DnOP) | <0.0100 | <0.0100 | -- |
| Diisodecyl phthalate (DIDP) | <0.0100 | <0.0100 | -- |
| Sum of DINP, DnOP & DIDP | <0.0100 | <0.0100 | 0.1 |

The above limit was quoted according to REACH Regulation (EC) no. 1907/2006, Annex XVII, Item 51 & 52 & amendment no. 552/2009 & 2018/2005 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended.

Tested Components:

- (1) Coatings on plastic sheet (body).
- (2) Ivory plastic sheet excluding coatings (body).
- (3) Transparent plastic (valve).

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(12) Cadmium (Cd) Content

Test Method : In House method TC008.TP. Acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

| Tested Component | Result in %, w/w | Limit in %, w/w |
|------------------|------------------|-----------------|
| (1) | ND | 0.1 |
| (2/3) | ND | 0.01 |

ND : Not detected (< 0.0005%)

The above limit was quoted according to Annex XVII Entry 23 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) 2016/217 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758)

Tested Components:

- (1) Coatings on plastic sheet (body).
- (2) Ivory plastic sheet excluding coatings (body).
- (3) Transparent plastic (valve).

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(13) Polycyclic Aromatic Hydrocarbons (PAH) Content

Test Method : The document AfPS GS 2019:01 PAK issued by the Federal Institute for Occupational Safety and Health, solvent extraction and determined by Gas Chromatographic - Mass Spectrometry (GC/MS).

| Compound | Result (ppm) | | Limit (ppm) |
|------------------------|--------------|-------|-------------|
| | (1) | (2/3) | |
| Benzo(a)pyrene | <0.20 | <0.20 | 0.5 |
| Benzo(e)pyrene | <0.20 | <0.20 | 0.5 |
| Benzo(a)anthracene | <0.20 | <0.20 | 0.5 |
| Chrysene | <0.20 | <0.20 | 0.5 |
| Benzo(b)fluoranthene | <0.20 | <0.20 | 0.5 |
| Benzo(j)fluoranthene | <0.20 | <0.20 | 0.5 |
| Benzo(k)fluoranthene | <0.20 | <0.20 | 0.5 |
| Dibenzo(a,h)anthracene | <0.20 | <0.20 | 0.5 |

The above limit was quoted according to REACH Regulation (EC) no. 1907/2006 & amendment no. 1272/2013, Annex XVII, Item 50 & The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019 (S.I. 2019 No. 758) as amended for polycyclic aromatic hydrocarbons (PAH).

ppm = parts per million = mg/kg

Tested Components:

- (1) Coatings on plastic sheet (body).
- (2) Ivory plastic sheet excluding coatings (body).
- (3) Transparent plastic (valve).

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(14) Physical and Mechanical Tests

Test Standard : Australian/New Zealand Standard AS/NZS ISO 8124-1:2023 - safety aspects related to mechanical and physical properties.

Age group for testing : For Ages Over 2 Years

The submitted samples were undergone the normal use and the following reasonable foreseeable abuse tests in accordance with the Clause 5.24 of AS/NZS ISO 8124-1:2023 before the assessment of the relevant requirement in Clause 4 :

| Clause | Test | Parameter |
|----------|------------------|-------------|
| 5.24.2 | Drop test | 4x93±5cm |
| 5.24.5 | Torque test | 0.45±0.02Nm |
| 5.24.6.1 | Tension test | 70±2N |
| 5.24.7 | Compression test | 136±2N |

| Clause | Requirement | Assessment |
|--------|--|------------|
| 4.1 | Normal use | P |
| 4.2 | Reasonably foreseeable abuse | P |
| 4.3 | Material | P |
| 4.4 | Small parts | |
| 4.4.1 | - For children under 36 months | P |
| 4.4.2 | - For children 36 months and over but under 72 months | NA |
| 4.5 | Shape, size and strength of certain toys | P |
| 4.6 | Edges | P |
| 4.7 | Points | P |
| 4.8 | Projections | NA |
| 4.9 | Metal wires and rods | NA |
| 4.10 | Plastic film or plastic bags in packaging and in toys | P |
| 4.11 | Cords and elastic | NA |
| 4.12 | Folding mechanisms | NA |
| 4.13 | Holes, clearances and accessibility of mechanisms | NA |
| 4.14 | Springs | NA |
| 4.15 | Stability and overload requirement | NA |
| 4.16 | Enclosures | NA |
| 4.17 | Items that cover the face and simulated protective equipment | NA |
| 4.18 | Projectile toys | NA |
| 4.19 | Flying toys | NA |
| 4.20 | Aquatic toys | NA |
| 4.21 | Braking | NA |



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| Clause | Requirement | Assessment |
|---------|---|------------|
| 4.22 | Toy bicycles | NA |
| 4.23 | Speed limitation of electrically driven ride-on toys | NA |
| 4.24 | Toys containing a heat source | NA |
| 4.25 | Liquid-filled toys | NA |
| 4.26 | Mouth-actuated toys | NA |
| 4.27 | Toy roller skates, toy inline skates and toys skateboards | NA |
| 4.28 | Percussion caps specifically designed for use in toys | NA |
| 4.29 | Acoustic requirements | NA |
| 4.30 | Toy scooters | NA |
| 4.31 | Magnets and magnetic components | NA |
| 4.32 | Yo-yo balls | NA |
| 4.33 | Straps intended to be worn fully or partially around the neck | NA |
| 4.34 | Sledges and toboggans with cords for pulling | NA |
| 4.35 | Jaw entrapment in handles and steering wheels | NA |
| 4.36 | Assembly | NA |
| 4.37 | Functional toys | NA |
| 4.38 | Toys intended to come into contact with food | NA |
| 4.39 | Inflatable toys | NA |
| ANNEX B | Safety labelling guidelines and manufacturer's markings | P |
| ANNEX D | Toy gun marking | NA |

Abbreviation : P = Pass NA = Not Applicable

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End of report

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