



Test Report

Date : 2024-12-25
No. : CP24090007

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Applicant : HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD
HAPE INTERNATIONAL(NINGBO)LTD
9-27 Nanhai Road, Beilun, Ningbo, Zhejiang 315800, China

Supplier : /

Description of Samples : One (1) group of submitted samples said to be:
MY FIRST LITTLE CABIN
Style/Item NO.:849463
Labeled Age Grading:3-8 Years old
Age grading for testing:3-8 Years old

Date Samples Received : 2024-09-25,2024-12-06,2024-12-09,2024-12-17

Date Tested : 2024-09-25 to 2024-12-19

Test Requirement : See next page

Remarks : The sample information is provided by the applicant company and is responsible for its authenticity.

Arthur Wang

Arthur Wang
Authorized Signatory



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Requirement	Conclusion
1. European Standard for Safety of Toys - EN71-3:2019+A1:2021, migration of certain elements - EN71-8:2018 Safety of toys Part 8: Activity toys for domestic use	Pass
2. Phthalates content-Annex XVII Item 51 & 52 of the REACH Regulation (EC) No. 1907/2006 and Commission Regulation (EC) No. 552/2009 & (EU) 2015/326 & (EU) 2018/2005	Pass
3. Total lead content-Annex XVII Item 63 of the REACH Regulation (EC) No. 1907/2006 and Commission Regulation (EU) No. 836/2012 & (EU) 2015/628	Pass
4. Total cadmium content-Annex XVII Item 23 of the REACH Regulation (EC) No. 1907/2006 and Commission Regulation (EC) No. 552/2009 & (EU) No 494/2011 & (EU) No 835/2012 & (EU) 2016/217	Pass
5. Polycyclic Aromatic Hydrocarbons (PAHs) content-Annex XVII Item 50 of the REACH Regulation (EC) No. 1907/2006 and Commission Regulation (EC) No. 552/2009 & (EU) No. 1272/2013 & (EU) 2015/326	Pass
6. Polycyclic Aromatic Hydrocarbons (PAHs) content-AfPS GS 2019:01 PAK	Pass
7. Banned AZO dye-Annex XVII Item 43 of the REACH Regulation (EC) No. 1907/2006 and Commission Regulation (EC) No. 552/2009 & (EU) No 126/2013	Pass
8. SCCPs content of the POPs Regulation (EU) No. 850/2004 and its amendment (EU) 2015/2030, (EU) 2019/1021	Pass
9. ASTM F1148-24 Standard Consumer Safety Performance Specification for Home Playground Equipment	Pass
10. US Consumer Product Safety Improvement Act - Total Lead content in accessible substrate materials in accordance with Sec. 101(a). - Phthalates content in accordance with Sec 108 and 16 CFR 1307.	Pass
11. Consumer Products Containing Lead Regulations SOR/2018-83 - Total lead content	Pass
12. Phthalates Regulations SOR/2016-188 under Canada Consumer Product Safety Act - Phthalates content	Pass
13. Australian/ New Zealand Standard for Safety of Toys - AS/NZS ISO 8124.3:2021+A1:2023, migration of certain elements - AS/NZS ISO 8124.6:2016 Safety of toys Part 6: Swings, slides and similar activity toys for indoor and outdoor family domestic use	Pass

The following test item(s) was/were performed on submitted sample(s) and/or components confirmed by applicant.

Item No.	Component Description
<u>Plastic materials:</u>	
01	Plastic slide: blue
02	Plastic handle: light green
03	Plastic nut cap: blue
04	Plastic on rope: black
05	Plastic climbing Stone: green
06	Plastic climbing Stone: orange
07	Plastic rope: brown
08	Nut cap: black
<u>Textile materials:</u>	
09	Fabric: green with white pattern

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Item No.	Component Description
10	Fabric: beige with white pattern
11	Fabric edge: blue
12	Fabric edge: grey
Other materials:	
13	Wood: burlywood
Metal materials:	
14	Metal: golden*1*2
15	Metal: silvery*1*2
16	Metal ring on fabric: dark grey*1*2

Test Results:

1.European Standard for Safety of Toys

1.1 EN71-3:2019+A1:2021, migration of certain elements

Tested method: EN71-3: 2019+A1:2021

Determined by: Inductively Coupled Plasma-Mass Spectrometer

Category III: Scraped-off toy material

*1 = Accessible glass, ceramic and metallic toy components which do not fit within the small parts cylinder are not tested according to requirement of EN71-3:2019+A1:2021.

Elements	Result (mg/kg)						MDL (mg/kg)	Limit (mg/kg)
	01	02	03	04	05	06		
Aluminium	ND	ND	ND	ND	ND	ND	20	28130
Antimony	ND	ND	ND	ND	ND	ND	5	560
Arsenic	ND	ND	ND	ND	ND	ND	5	47
Barium	ND	ND	ND	ND	ND	ND	20	18750
Boron	ND	ND	ND	ND	ND	ND	20	15000
Cadmium	ND	ND	ND	ND	ND	ND	2.5	17
Chromium(III)	ND	ND	ND	ND	ND	ND	0.05	460
Chromium (VI)	ND	ND	ND	ND	ND	ND	0.03	0.053
Cobalt	ND	ND	ND	ND	ND	ND	5	130
Copper	ND	ND	ND	ND	ND	ND	20	7700
Lead	ND	ND	ND	ND	ND	ND	5	23
Manganese	ND	ND	ND	ND	ND	ND	20	15000
Mercury	ND	ND	ND	ND	ND	ND	5	94
Nickel	ND	ND	ND	ND	ND	ND	5	930
Selenium	ND	ND	ND	ND	ND	ND	5	460
Strontium	ND	ND	ND	ND	ND	ND	20	56000
Tin	ND	ND	ND	ND	ND	ND	2.5	180000
Organic tin	ND	ND	ND	ND	ND	ND	0.5	12
Zinc	ND	ND	ND	ND	ND	ND	20	46000

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Elements	Result (mg/kg)							MDL (mg/kg)	Limit (mg/kg)
	07	08	09	10	11	12	13		
Aluminium	ND	ND	ND	ND	ND	ND	ND	20	28130
Antimony	ND	ND	ND	ND	ND	ND	ND	5	560
Arsenic	ND	ND	ND	ND	ND	ND	ND	5	47
Barium	ND	ND	ND	ND	ND	ND	ND	20	18750
Boron	ND	ND	ND	ND	ND	ND	ND	20	15000
Cadmium	ND	ND	ND	ND	ND	ND	ND	2.5	17
Chromium(III)	ND	ND	ND	ND	ND	ND	ND	0.05	460
Chromium (VI)	ND	ND	ND	ND	ND	ND	ND	0.03	0.053
Cobalt	ND	ND	ND	ND	ND	ND	ND	5	130
Copper	ND	ND	ND	ND	ND	ND	ND	20	7700
Lead	ND	ND	ND	ND	ND	ND	ND	5	23
Manganese	ND	ND	ND	ND	ND	ND	96	20	15000
Mercury	ND	ND	ND	ND	ND	ND	ND	5	94
Nickel	ND	ND	ND	ND	ND	ND	ND	5	930
Selenium	ND	ND	ND	ND	ND	ND	ND	5	460
Strontium	ND	ND	ND	ND	ND	ND	ND	20	56000
Tin	ND	ND	ND	ND	ND	ND	ND	2.5	180000
Organic tin	ND	ND	ND	ND	ND	ND	ND	0.5	12
Zinc	ND	ND	ND	ND	ND	ND	ND	20	46000

- Notes:
- (1) mg/kg = milligrams per kilogram.
 - (2) MDL=Method detection limit.
 - (3) ND= Not detected (lower than MDL).
 - (4) The Chromium (III) and Chromium (VI) content was determined by screening the soluble Chromium content. When the result of Chromium exceeded the limit of Chromium (III) and Chromium (VI), confirmation test was performed and the Chromium III content was determined by subtracting the Chromium (VI) content from the total Chromium content.
 - (5) The organic tin content was determined by screening the soluble tin content. When the tin content exceeded the limit of organic tin after conversion, confirmation test was performed in accordance with the EN 71-3:2019+A1:2021.

1.2 EN 71-8:2018 Safety of toys Part 8: Activity toys for domestic use

Product Type:slide,other
Age grading for testing:3-8 years old

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4	<u>Requirements</u>	----
4.1	General	----
4.1.1	Assembly	Pass
4.1.2	Static strength	Pass
4.1.3	Maximum height	Pass
4.1.4	Corners and edges	Pass

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<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4.1.5	Protruding parts	Pass
4.1.6	Diameter of ropes and other means of suspension	Pass
4.1.7	Water accumulation	Pass
4.2	Barriers,handrails and ladders and similar means of access to activity toys	----
4.2.2	Ladders and similar means of access to activity toys	Pass
4.3	Entrapment	----
4.3.1	Entrapment of head and neck	Pass
4.3.2	Entrapment of clothing and hair	Pass
4.3.3	Entrapment of feet	Pass
4.3.4	Entrapment of fingers	Pass
4.4	Stability of activity toys other than slides,swings and activity toys with crossbeams,and see-saws	----
4.4.1	General	Pass
4.4.3	Stability of activity toys with a free height of fall of more than 600mm	Pass
4.5	Slides	----
4.5.1	General	Pass
4.5.2	Stability of slides	Pass
4.5.3	Retaining sides for slides	Pass
4.5.4	Starting,sliding and run-out sections on slides	Pass
5	<u>Warnings, markings, and instructions</u>	----
5.1	Warnings and markings	----
5.1.1	General	Pass
5.2	Assembly and installation instructions	Pass
5.3	Maintenance	Pass

2. Phthalate content

Ref.: Annex XVII item 51&52 of the REACH Regulation and Commission Regulation (EC)No.552/2009 & (EU) 2015/326 & (EU) 2018/2005

Determined by: Gas Chromatography-Mass Spectrometry

<u>Test Item</u>	<u>CAS No.</u>	<u>Result(%)</u>			<u>Limit(%)</u>
		<u>01+02+03</u>	<u>04+05+06</u>	<u>07+08</u>	
Dibutyl phthalate(DBP)	84-74-2	ND	ND	ND	Sum <0.1%
Butyl benzyl phthalate (BBP)	85-68-7	ND	ND	ND	
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	ND	ND	ND	
Di-isobutyl phthalate(DIBP)	84-69-5	ND	ND	ND	
Di-n-octyl phthalate(DNOP)	117-84-0	ND	ND	ND	Sum <0.1%
Di-iso-decyl phthalate(DIDP)	26761-40-0	ND	ND	ND	
Di-iso-nonyl phthalate(DINP)	28553-12-0	ND	ND	ND	

- Notes: (1) %= Percentage by weight.
 (2) Method detection limit for DBP, BBP, DEHP, DNOP, DIDP, DIBP and DINP= 0.010%(W/W).
 (3) ND= Not detected (lower than method detection limit).

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3. Total Lead content

Ref.: Annex XVII Item 63 of the REACH Regulation and Commission Regulation (EU)No.836/2012 & (EU) 2015/628

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Test sample</u>	<u>Result (mg/kg)</u>	<u>MDL(mg/kg)</u>	<u>Limit(mg/kg)</u>
<u>01+02+03</u>	ND	10	500
<u>04+05+06</u>	ND	10	500
<u>07+08</u>	ND	10	500
<u>09+10</u>	17	10	500
<u>11</u>	ND	10	500
<u>12</u>	ND	10	500
<u>13</u>	ND	10	500
<u>14</u>	35	10	500
<u>15</u>	44	10	500
<u>16</u>	34	10	500

Notes: (1) mg/kg = milligram per kilogram.
(2) MDL= Method detection limit.
(3) ND = Not detected (lower than MDL).

4. Total cadmium analysis

Ref.: Annex XVII Item 23 of the REACH Regulation and Commission Regulation (EC)No.552/2009 & (EU) No 494/2011 & (EU) No 835/2012 & (EU) 2016/217

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Test sample</u>	<u>Result (mg/kg)</u>	<u>MDL(mg/kg)</u>	<u>Limit(mg/kg)</u>
<u>01+02+03</u>	ND	5	100
<u>04+05+06</u>	ND	5	100
<u>07+08</u>	ND	5	100
<u>09+10</u>	ND	5	100
<u>11</u>	ND	5	100
<u>12</u>	ND	5	100
<u>13</u>	ND	5	100
<u>14</u>	ND	5	100
<u>15</u>	ND	5	100
<u>16</u>	ND	5	100

Notes: (1) mg/kg = milligram per kilogram.
(2) MDL= Method detection limit.
(3) ND = Not detected (lower than MDL).

5. Polycyclic Aromatic Hydrocarbons (PAHS) content

Ref.: ANNEX XVII Item 50 of the Reach Regulation (EC) No.1907/2006 and Commission Regulation (EC)No.552/2009 & (EU)No.1272/2013 & (EU) 2015/326

Tested method: AfPS GS 2019: 01PAK

Determined by: Gas Chromatography Mass Spectrometer

Toys, including activity toys and Child care articles

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No	Test Item(s)	CAS No.	Result(mg/kg)			MDL (mg/kg)	Limit (mg/kg)
			01+02+03	04+05+06	07+08		
1	Benzo (a) anthracene	56-55-3	ND	ND	ND	0.2	0.5
2	Chrysene	218-01-9	ND	ND	ND	0.2	0.5
3	Benzo (b) fluoranthene	205-99-2	ND	ND	ND	0.2	0.5
4	Benzo (k) fluoranthene	207-08-9	ND	ND	ND	0.2	0.5
5	Benzo (a) pyrene	50-32-8	ND	ND	ND	0.2	0.5
6	Dibenzo (a,h) anthracene	53-70-3	ND	ND	ND	0.2	0.5
7	Benzo (e) pyrene	192-97-2	ND	ND	ND	0.2	0.5
8	Benzo (j) fluoranthene	205-82-3	ND	ND	ND	0.2	0.5

Notes: (1) mg/kg = milligram per kilogram.
(2) MDL= Method detection limit.
(3) ND = Not detected (lower than MDL).

6.Polycyclic Aromatic Hydrocarbons (PAHS) content

Tested method: AfPS GS 2019: 01PAK

Determined by: Gas Chromatography Mass Spectrometer

No	Test Item(s)	CAS No.	Result(mg/kg)			Category 2a
			01+02+03	04+05+06	07+08	Limit (mg/kg)
(1)	Naphthalene	91-20-3	ND	ND	ND	< 2
(2)	Phenanthrene	85-01-8	ND	ND	ND	Sum<5
(3)	Pyrene	129-00-0	ND	ND	ND	
(4)	Anthracene	120-12-7	ND	ND	ND	
(5)	Fluoranthene	260-44-0	ND	ND	ND	
(6)	Benzo (a) pyrene	50-32-8	ND	ND	ND	
(7)	Benzo (e) pyrene	192-97-2	ND	ND	ND	< 0.2
(8)	Benzo (a) anthracene	56-55-3	ND	ND	ND	< 0.2
(9)	Benzo (b) fluoranthene	205-99-2	ND	ND	ND	< 0.2
(10)	Benzo (j) fluoranthene	205-82-3	ND	ND	ND	< 0.2
(11)	Benzo (k) fluoranthene	207-08-9	ND	ND	ND	< 0.2
(12)	Chrysene	218-01-9	ND	ND	ND	< 0.2
(13)	Dibenzo (a,h) anthracene	53-70-3	ND	ND	ND	< 0.2
(14)	Benzo (g,h,i) perylene	191-24-2	ND	ND	ND	< 0.2
(15)	Indeno (1,2,3-cd) pyrene	193-39-5	ND	ND	ND	< 0.2
Sum 15 PAHs		---	ND	ND	ND	<5

Note(s): (1) mg/kg = milligram per kilogram.ND = Not detected.
(2) Method detection limit = 0.2 mg/kg(Each).
(3) ND = Not detected (lower than method detection limit).
(4) Category 2a: Materials not covered by Category 1, used by children, coming into long-term contact (more than 30s) or short-term repetitive contact with skin during the intended or foreseeable use

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7. Detection of Banned Azo Colourants

Ref.: Annex XVII item 43 of the REACH Regulation and Commission Regulation (EC) No.552/2009 & (EU) NO 126/2013

Tested method: EN ISO14362-1: 2017

Determined by: Gas Chromatography-Mass Spectrometry

<u>Aromatic Amines</u>		<u>Result(ppm)</u>		<u>Limit (ppm)</u>
<u>CAS No.</u>	<u>Name</u>	<u>09+10</u>	<u>11+12</u>	
92-67-1	4-aminobiphenyl	ND	ND	30
92-87-5	Benzidine	ND	ND	30
95-69-2	4-Chloro-o-toluidine	ND	ND	30
91-59-8	2-Naphthylamine	ND	ND	30
97-56-3	4-o-Aminoazotulene	ND	ND	30
99-55-8	5-Nitro-o-toluidine	ND	ND	30
106-47-8	4-Chloroaniline	ND	ND	30
615-05-4	4-Methoxy-m-phenylenediamine	ND	ND	30
101-77-9	4,4'-Methylenedianiline	ND	ND	30
91-94-1	3,3'-Dichlorobenzidine	ND	ND	30
119-90-4	3,3'-Dimethoxybenzidine	ND	ND	30
119-93-7	3,3'-Dimethybenzidine	ND	ND	30
838-88-0	4,4'-Methylenedi-o-toluidine	ND	ND	30
120-71-8	6-Methoxy-m-toluidine	ND	ND	30
101-14-4	2,2'-Dichloro-4,4'- methylenedianiline	ND	ND	30
101-80-4	4,4'-Oxydianiline	ND	ND	30
139-65-1	4,4'-Thiodianiline	ND	ND	30
95-53-4	o-Toluidine	ND	ND	30
95-80-7	4-Methy-m-phenylenediamine	ND	ND	30
137-17-7	2,4,5-Trimethylaniline	ND	ND	30
90-04-0	2-Methoxyaniline	ND	ND	30
60-09-3	4-Amino-azo-benzene	ND	ND	30

- Notes:
- (1) ppm = parts per million.
 - (2) Method detection limit=5ppm(Each).
 - (3) ND = not detected (lower than method detection limit).
 - (4) Each Azo Limit is quoted from the Azo colourants requirements In Annex XVII Item 43 of the REACH Regulation (EC)No.1907/2006 (Formerly Known As Directive 2002/61/EC) and is given for reference only.

8. The POPS Regulation (EU) No.850/2004 and its amendment (EU)2015/2030, (EU)2019/1021-Alkanes, C10-13, Chloro (Short Chain Chlorinated Paraffins) content

Tested method: : ISO18219-1-2021

Determined by : Gas Chromatography with Mass Selective Detector

<u>Sample</u>	<u>Test Item</u>	<u>CAS No.</u>	<u>Result (%)</u>	<u>MDL(%)</u>	<u>Limit(%)</u>
<u>01+02+03</u>	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8 and others	ND	0.01	0.15
<u>04+05+06</u>	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8 and others	ND	0.01	0.15

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Sample	Test Item	CAS No.	Result (%)	MDL(%)	Limit(%)
07+08	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8 and others	ND	0.01	0.15

Notes: (1) % = Percentage by weight.
(2) MDL=Method detection limit.
(3) ND = Not detected.

9.ASTM F1148-24 Standard Consumer Safety Performance Specification for Home Playground Equipment

Product Type:slide,other
Age grading for testing:3-8 years old

Applicable Clause	Description	Result
4	<u>Materials and Manufacture</u>	----
4.1	General	#1
5	<u>General Requirements</u>	----
5.1	Applicable to All Home Playground Equipment	Pass
6	<u>Performance Requirements</u>	----
6.1	Head and Neck Entrapment	Pass
6.2	Acute Angles	Pass
6.3	Protrusions	Pass
6.4	Edges, Points, and Surfaces	Pass
6.6	Crush and Shear Points	Pass
6.7	Holes and Slots	Pass
6.8	Hardware	Pass
6.10	Hand Support:Hand Gripping/Grasping Components	Pass
7	<u>Requirements for Access</u>	----
7.1	Rung Ladders,Stepladders,and Stairways	Pass
7.2	Handrails	Pass
8	<u>Equipment</u>	----
8.2	Slides	----
8.2.1	Slide Requirements	Pass
8.4	Ropes	Pass
9	<u>Equipment Layout</u>	----
9.1	Play Structure Use Zone	#2
10	<u>Installation</u>	----
10.1	Installation Instructions and Information	Pass
11	<u>Structural Integrity</u>	----
11.1.1	Handholds, Footholds, and Horizontal Supporting Members	Pass
11.1.4	Slides	Pass
11.1.7	Climbing Towers/Jungle Gyms	Pass
11.1.8	Platforms	Pass
11.1.9	Climbing Components	Pass

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<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
12	<u>Maintenance Instructions</u>	Pass
13	<u>Labeling and Signage</u>	Pass
14	<u>Information</u>	Pass

Notes: #1=The assessment of materials durability constructed was not verified in an outdoor setting. However, it's manufacturer responsibility to ensure the compliance during designing. treatment process and manufacturing.
 #2=The compliance with ASTM F1292 was not verified because the Play Structure Use Zone could not be evaluated in laboratory environment. It would be evaluated at where the equipment is actually assembled on. However, a specific surfacing guideline which based on "SECTION 4 OF the United States Consumer Product Safety Commission's (USCPCSC) Outdoor Home Playground Safety Handbook was included in the instruction manual to specifying the selection and assembly guide for protective surfacing.

10. US Consumer Product Safety Improvement Act

10.1 Children's products containing lead - Total Lead content in accessible substrate materials

Ref.: CPSIA Sec 101(a)

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Test sample</u>	<u>Result (ppm)</u>	<u>MDL(ppm)</u>	<u>Limit(ppm)</u>
<u>01+02+03</u>	ND	10	100
<u>04+05+06</u>	ND	10	100
<u>07+08</u>	ND	10	100
<u>09+10</u>	17	10	100
<u>11</u>	ND	10	100
<u>12</u>	ND	10	100
<u>13</u>	ND	10	100
<u>14</u>	35	10	100
<u>15</u>	44	10	100
<u>16</u>	34	10	100

Notes: (1) ppm = parts per million.
 (2) MDL=Method detection limit.
 (3) ND = Not detected (lower than MDL).

10.2 Phthalates content

Ref.:CPSIA Sec 108 and 16 CFR PART 1307

Determined by: Gas Chromatography with Mass Selective Detector

<u>Test Item</u>	<u>CAS No.</u>	<u>Result(ppm)</u>			<u>Limit (ppm)</u>
		<u>01+02+03</u>	<u>04+05+06</u>	<u>07+08</u>	
Di-n-butyl phthalate (DBP)	84-74-2	ND	ND	ND	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	ND	ND	ND	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	ND	ND	ND	1000
Diisononyl phthalate (DINP)	28553-12-0	ND	ND	ND	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	ND	ND	ND	1000
Di-isobutyl phthalate(DIBP)	84-69-5	ND	ND	ND	1000

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Test Item	CAS No.	Result(ppm)			Limit (ppm)
		01+02+03	04+05+06	07+08	
Di-n-pentyl phthalate(DPENP)	131-18-0	ND	ND	ND	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	ND	ND	ND	1000

Notes: (1) ppm =parts per million.
(2) Method detection limit = 100ppm.
(3) ND = Not detected (lower than method detection limit).

11. Total lead content

Ref.: Consumer Products Containing Lead Regulations SOR/2018-83
Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Test Item	Result(mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	01+02+03	04+05+06	07+08	09+10	11		
Total lead	ND	ND	ND	17	ND	10	90

Test Item	Result(mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	12	13	14	15	16		
Total lead	ND	ND	35	44	34	10	90

Notes: (1) mg/kg = milligram per kilogram.
(2) MDL= Method detection limit.
(3) ND = Not detected (lower than MDL).

12. Phthalates content

Ref.: Phthalates Regulation SOR/2016-188
Determined by: Gas Chromatography Mass Spectrometer

A. For toys and child care articles

Test Item	CAS No.	Result(mg/kg)			Limit (mg/kg)
		01+02+03	04+05+06	07+08	
Dibutyl phthalate(DBP)	84-74-2	ND	ND	ND	1000
Butyl benzyl phthalate (BBP)	85-68-7	ND	ND	ND	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	ND	ND	ND	1000

B. Any toys and children articles which can be placed in mouth for children under 4 years

Test Item	CAS No.	Result(mg/kg)			Limit (mg/kg)
		01+02+03	04+05+06	07+08	
Di-n-octyl phthalate(DNOP)	117-84-0	ND	ND	ND	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	ND	ND	ND	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	ND	ND	ND	1000

Notes: (1) mg/kg = milligram per kilogram.
(2) Method detection limit =100mg/kg.
(3) ND = Not detected (lower than method detection limit).

13.Australian/ New Zealand Standard for Safety of Toys

13.1 AS/NZS ISO 8124.3:2021+A1:2023- Part 3-Migration of certain elements

Determined by: Inductively Coupled Plasma-Mass Spectrometer

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*2 = Accessible glass, ceramic and metallic toy components which do not fit within the small parts cylinder are not tested according to requirement of AS/NZS ISO 8124-3:2021.

Element	Result(mg/kg)							MDL (mg/kg)	Limit (mg/kg)
	01	02	03	04	05	06	07		
Soluble lead (Pb)	ND	ND	ND	ND	ND	ND	ND	5	90
Soluble cadmium(Cd)	ND	ND	ND	ND	ND	ND	ND	5	75
Soluble chromium (Cr)	ND	ND	ND	ND	ND	ND	ND	5	60
Soluble barium (Ba)	ND	ND	ND	ND	ND	ND	ND	5	1000
Soluble antimony(Sb)	ND	ND	ND	ND	ND	ND	ND	5	60
Soluble arsenic(As)	ND	ND	ND	ND	ND	ND	ND	2	25
Soluble mercury(Hg)	ND	ND	ND	ND	ND	ND	ND	5	60
Soluble selenium (Se)	ND	ND	ND	ND	ND	ND	ND	5	500

Element	Result(mg/kg)							MDL (mg/kg)	Limit (mg/kg)
	08	09	10	11	12	13	----		
Soluble lead (Pb)	ND	ND	ND	ND	ND	ND	----	5	90
Soluble cadmium(Cd)	ND	ND	ND	ND	ND	ND	----	5	75
Soluble chromium (Cr)	ND	ND	ND	ND	ND	ND	----	5	60
Soluble barium (Ba)	ND	ND	ND	ND	ND	7	----	5	1000
Soluble antimony(Sb)	ND	ND	ND	ND	ND	ND	----	5	60
Soluble arsenic(As)	ND	ND	ND	ND	ND	ND	----	2	25
Soluble mercury(Hg)	ND	ND	ND	ND	ND	ND	----	5	60
Soluble selenium (Se)	ND	ND	ND	ND	ND	ND	----	5	500

Notes: (1) mg/kg = milligram per kilogram.
(2) MDL= Method detection limit.
(3) ND = Not detected (lower than MDL).

13.2 AS NZS ISO 8124.6:2016 Safety of toys Part 6: Swings, slides and similar activity toys for indoor and outdoor family domestic use

Product Type:slide,other
Age grading for testing:3-8 years old

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4	Requirements	----
4.1	General	----
4.1.1	Static strength	Pass
4.1.2	Maximum height	Pass
4.1.3	Corners and edges	Pass
4.1.4	Protruding parts	----
4.1.4.1	General	Pass
4.1.4.2	All protrusions	Pass
4.1.4.3	Upright protrusions	Pass
4.1.4.4	Motion rides	Pass
4.1.4.5	Slides	Pass
4.1.5	Climbing and swing ropes,chain and cables	Pass
4.3	Rung ladders,stepladders and stairways	Pass

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<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4.4	Entrapment	----
4.4.1	Head and neck entrapment	Pass
4.4.2	Entrapment of clothing and hair	Pass
4.4.3	Entrapment of feet	Pass
4.4.4	Entrapment of fingers	Pass
4.5	Stability of activity toys other than slides,swing and toys with crossbeams	----
4.5.1	General	----
4.5.3	Stability of activity toys with a free height of fall of more than 600 mm	Pass
4.6	Slides	----
4.6.1	Stability of slides	Pass
4.6.2	Retaining sides for slides	Pass
4.6.3	Starting, sliding and run-out sections on slides	Pass
5	<u>Warnings and labelling</u>	----
5.1	Labelling	Pass
5.2	Assembly and installation instructions	----
5.2.1	General	Pass
5.2.2	Information on playground surfacing materials	----
5.2.2.1	Maximum fall heights	Pass
5.3	Maintenance instructions	Pass

The photo of submitted samples



******* End of Test Report *******

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