



Test Report

Date : 2025-07-29

Page 1 of 32

No. : SP25060270

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

Description of Samples : One (1) group of submitted samples said to be:
MULTIZONE SPORTS TOWER
STYLE NO.: 851836
AGE GRADING FOR TESTING:5+

Date Samples Received : 2025-06-17, 2025-07-21

Date Tested : 2025-06-17 to 2025-07-29

Requirements	Conclusion
1. ASTM Standard Consumer Safety Specification For Toy Safety F 963-23 - physical and mechanical test - flammability test - heavy metal test - phthalates test	Pass
2.US Consumer Product Safety Improvement Act - Total Lead content in paint and surface coating in accordance with Sec. 101 (f) and 16 CFR 1303. - Total Lead content in substrate in accordance with Sec. 101(a). - Phthalates content in accordance with Sec 108 and 16 CFR 1307.	Pass
3. Toys Regulations SOR/2011-17 and Amending Regulations SOR/2016-195, SOR/2016-302 and SOR/2018-138 under Canada Consumer Product Safety Act - Physical and Mechanical tests	Pass
4. Toys Regulations SOR/2011-17 section 21 and Amending Regulations SOR/2016-195, SOR/2016-302 and SOR/2018-138 under Canada Consumer Product Safety Act - Cellulose Nitrate and Celluloid	Pass
5. Toys Regulations SOR/2011-17 section 23 and amendment SOR/2022-122 under Canada Consumer Product Safety Act - Toxic element analysis in surface coating	Pass
6. Phthalates Regulations SOR/2016-188 under Canada Consumer Product Safety Act - Phthalates content	Pass
7. Consumer Products Containing Lead Regulations SOR/2018-83 - Total lead content	Pass

CHEN Lufeng, James
Authorized Signatory



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Test Report

Date : 2025-07-29

Page 2 of 32

No. : SP25060270

Requirements	Conclusion
8. Surface Coating Materials Regulations SOR/2016-193 Section 5 & 6 and amendment SOR/2022-122 for total lead content test - Total lead and mercury content in surface coating	Pass
9. European Standard for Safety of Toys - EN71-1:2014+A1:2018, mechanical and physical properties - EN71-2:2020, flammability - EN71-3:2019+A1:2021, migration of certain elements - EN71-3:2019+A2:2024, migration of certain elements	Pass
10. 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
11. 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
12. 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
13. 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
14. Australian/ New Zealand Standard for Safety of Toys - AS/ NZS ISO 8124.1:2023, mechanical and physical properties - AS/ NZS ISO 8124.2:2023, flammability - AS/ NZS ISO 8124.3:2021+A1:2023, migration of certain elements	Pass
15. SCCPs content the POPs Regulation (EU) No.850/2004 and its amendment (EU)2015/2030, (EU)2019/1021	Pass
16. Polycyclic Aromatic Hydrocarbons (PAHs) content - AfPS GS 2019:01 PAK	Pass
17. 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

A handwritten signature in black ink, appearing to read 'James Chen'.

CHEN Lufeng, James
Authorized Signatory



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Test Report

Date : 2025-07-29

Page 3 of 32

No. : SP25060270

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

Item No.	Component Description
<u>Coating materials:</u>	
<u>1</u>	Coating: white
<u>Rubber materials:</u>	
<u>2</u>	Around of inflation port: transparent black
<u>Plastic materials:</u>	
<u>3</u>	Plastic hold: yellow
<u>4</u>	Plastic pump: black
<u>5</u>	Plastic body: blue/green/white/multicolor
<u>6</u>	Plastic cover: transparent
<u>7</u>	Plastic on body: white
<u>Rubber materials:</u>	
<u>8</u>	Inflation port: black
<u>9</u>	Inflation port: transparent
<u>Metal materials:</u>	
<u>10</u>	Metal in pump: silver
<u>Textile materials:</u>	
<u>11</u>	Rope: white
<u>12</u>	Small ball's cover: blue
<u>13</u>	Small ball's cover: red
<u>14</u>	Small ball's cover: yellow
<u>15</u>	Big ball's cover: blue
<u>16</u>	Big ball's cover: grey
<u>Rubber materials:</u>	
<u>17</u>	Rubber ball: white
<u>Others materials:</u>	
<u>18</u>	Rubber on transparent inflation port: black
<u>19</u>	Foam (interior the ball): black

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Test Report

Date : 2025-07-29

No. : SP25060270

Page 4 of 32

Test Results:

1. ASTM Standard Consumer Safety Specification For Toy Safety F 963-23

AGE GRADING:

The sample was appropriately age graded with the marking of “5-99 years”.

AGE GRADING FOR TESTING:

5+.

1.1 Mechanical and physical hazards of the submitted sample

Ref.: ASTM F 963-23

Applicable requirements before and after use and abuse testing:

<u>Applicable</u> <u>Section</u>	<u>Description</u>	<u>Result</u>
4	<u>Safety requirements</u>	----
4.1	Material Quality	Pass
4.2	Flammability	Pass* ¹
4.4	Electrical/Thermal Energy	NA
4.5	Sound-Producing Toys	NA
4.6	Small Objects	NA
4.7	Accessible Edges	Pass
4.8	Projections	NA
4.9	Accessible Points	Pass
4.10	Wires or Rods	NA
4.11	Nails and Fasteners	NA
4.12	Plastic Film	NA
4.13	Folding Mechanisms and Hinges	NA
4.14	Cords, Straps, and Elastics	NA
4.15	Stability and Over-Load Requirements	NA
4.16	Confined Spaces	NA
4.17	Wheels, Tires, and Axles	NA
4.18	Holes, clearance and Accessibility of Mechanisms	NA
4.19	Simulated Protective Devices	NA
4.20	Pacifiers	NA
4.21	Projectile Toys	NA
4.22	Teethers and Teething Toys	NA
4.23	Rattles	NA
4.24	Squeeze Toys	NA
4.25	Battery Operated Toys	NA
4.26	Toys Intended to be attached to a Crib or Playpen	NA
4.27	Stuffed and Beanbag-Type Toys	NA
4.28	Stroller and Carriage Toys	NA
4.29	Art Materials	NA

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Test Report

Date : 2025-07-29

Page 5 of 32

No. : SP25060270

<u>Applicable</u>		
<u>Section</u>	<u>Description</u>	<u>Result</u>
4.30	Toy Gun Marking	NA
4.31	Balloons	NA
4.32	Certain Toys with Nearly Spherical Ends	NA
4.33	Marbles	NA
4.34	Balls	Pass
4.35	Pompoms	NA
4.36	Hemispheric-Shaped Objects	NA
4.37	Yo Yo Elastic Tether Toys	NA
4.38	Magnets	NA
4.39	Jaw Entrapment in Handles and Steering Wheels	NA
4.40	Expanding Materials	NA
4.41	Toy Chests	NA
5	<u>Labeling Requirements</u>	----
5.1	Federal Government Requirements	Pass
5.1.2	Tracking label	Pass
5.2	Age Grading Labeling	Pass
5.3	Safety Labeling Requirements	NA
5.4	Aquatic Toys	NA
5.5	Crib and Playpen Toys	NA
5.6	Mobiles	NA
5.7	Stroller and Carriage Toys	NA
5.8	Toys Intended to be Assembled by an Adult	NA
5.9	Simulated Protective Devices	NA
5.10	Toys with Functional Sharp Edges or Points	NA
5.11	Small objects, Small Balls, Marbles and Balloons	NA
5.12	Art Materials	NA
5.13	Electric Toys	NA
5.14	Battery-Operated Toys	NA
5.15	Promotional Materials	Pass
5.16	Magnets	NA
6	<u>Instructional Literature</u>	----
6.1	Definition and Description	NA
6.2	Crib and Playpen Toys	NA
6.3	Mobiles	NA
6.4	Toys intended to be Assembled by an Adult.	NA
6.5	Battery-Operated Toys	NA
6.6	Battery Powered Ride-on Toys	NA
6.7	Toys in Contact with Food	NA
6.8	Toy Chests	NA
6.9	custom tool to access the battery(ies)	NA
7	<u>Producer' s Markings</u>	----
7.1	Producer' s Name and Address	Pass

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Test Report

Date : 2025-07-29

Page 6 of 32

No. : SP25060270

Applicable

<u>Section</u>	<u>Description</u>	<u>Result</u>
7.2	Battery-Powered Ride-on Toys	NA
7.3	Toy Chests	NA

*1 = Please refer to section 1.2 of this report for details.

NA = Not Applicable

Use and abuse testing:

Applicable

<u>Section</u>	<u>Description</u>	<u>Test Condition</u>
8.5	Normal Use Testing	
8.6	Abuse Testing	
8.7	Drop Tests	4 drops at 3 ft.
8.8	Torque Tests	4 in-lbs or $\pm 180^\circ$
8.9	Tension Tests	15 lbs.
8.10	Compression Tests	NA

1.2 Flammability test for solids and soft toys

Ref.: ASTM F963-23 Section 4.2

Method used: FHSA 16CFR 1500.44

Result: Pass

Sample

MULTIZONE SPORTS TOWER

Burn rate (in/sec.)

DNI

DNI = Did not ignite

Note: In accordance with the FHSA, the burn rate should not be greater than 0.1 in. per second.

1.3 Heavy metal test

Ref.: ASTM F963-23 Section 4.3.5

Method: ASTM F963-23 Section 8.3

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

4.3.5.1 Paint and similar surface-coating

Total lead test

Sample
1

Result
<10ppm

Limit
90ppm

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Test Report

Date : 2025-07-29

Page 7 of 32

No. : SP25060270

Test Results:

Soluble metals test

	<u>1</u>	<u>Limit</u>
Soluble lead.....	<5ppm	90ppm
Soluble cadmium.....	<5ppm	75ppm
Soluble chromium.....	<5ppm	60ppm
Soluble barium.....	<5ppm	1000ppm
Soluble antimony.....	<5ppm	60ppm
Soluble arsenic.....	<2ppm	25ppm
Soluble mercury.....	<5ppm	60ppm
Soluble selenium.....	<5ppm	500ppm

4.3.5.2 Toys Substrate Materials

Total lead analysis

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>2</u>	<10ppm	100ppm
<u>3+4+5</u>	<10ppm	100ppm
<u>6+7</u>	<10ppm	100ppm
<u>8</u>	<10ppm	100ppm
<u>9</u>	<10ppm	100ppm
<u>10</u>	<10ppm	100ppm
<u>17</u>	<10ppm	100ppm
<u>18</u>	<10ppm	100ppm
<u>19</u>	<10ppm	100ppm

Note: < denotes less than.

Soluble metals test

	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	8ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

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Test Report

Date : 2025-07-29

Page 8 of 32

No. : SP25060270

Test Results:

	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	15ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>14</u>	<u>15</u>	<u>16</u>	<u>17</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>18</u>				<u>Limit</u>
Soluble lead.....	<5ppm				90ppm
Soluble cadmium.....	<5ppm				75ppm
Soluble chromium.....	<5ppm				60ppm
Soluble barium.....	<5ppm				1000ppm
Soluble antimony.....	<5ppm				60ppm
Soluble arsenic.....	<2ppm				25ppm
Soluble mercury.....	<5ppm				60ppm
Soluble selenium.....	10ppm				500ppm

Note: < denotes less than.

1.4 Phthalates content

Ref.: ASTM F963-23, Section 4.3.8 and 16 CFR 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>1</u>	<u>2</u>	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	1000
Di-n-penty1 phthalate(DPENP)	131-18-0	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	1000

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Test Report

Date : 2025-07-29

Page 9 of 32

No. : SP25060270

Test Results:

Test Item	CAS No.	Result(ppm)			Limit (ppm)
		3+4+5	6	7	
Di-n-butyl phthalate (DBP)	84-74-2	116	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	144	<100	226	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	111	<100	<100	1000
Di-n-penty1 phthalate(DPENP)	131-18-0	<100	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	<100	1000

Test Item	CAS No.	Result(ppm)		Limit (ppm)
		8	9	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	1000
Di-n-penty1 phthalate(DPENP)	131-18-0	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	1000

Test Item	CAS No.	Result(ppm)		Limit (ppm)
		17	18	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	1000
Di-n-penty1 phthalate(DPENP)	131-18-0	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	1000

Test Item	CAS No.	Result(ppm)	Limit (ppm)
		19	
Di-n-butyl phthalate (DBP)	84-74-2	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	1000
Di-n-penty1 phthalate(DPENP)	131-18-0	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	1000

Note: < denotes less than.

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Test Report

Date : 2025-07-29

Page 10 of 32

No. : SP25060270

Test Results:

2. US Consumer Product Safety Improvement Act

2.1 Children's products containing lead - Total Lead content in paint and surface coating

Ref.: CPSIA Sec 101(f) and 16 CFR 1303

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>1</u>	<10ppm	90ppm

Note: < denotes less than.

2.2 Children's products containing lead - Total Lead content in substrate

Ref.: CPSIA Sec 101(a)

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Sample</u>	<u>Result</u>	<u>Limit</u>
<u>2</u>	<10ppm	100ppm
<u>3+4+5</u>	<10ppm	100ppm
<u>6+7</u>	<10ppm	100ppm
<u>8</u>	<10ppm	100ppm
<u>9</u>	<10ppm	100ppm
<u>10</u>	<10ppm	100ppm
<u>17</u>	<10ppm	100ppm
<u>18</u>	<10ppm	100ppm
<u>19</u>	<10ppm	100ppm

Note: < denotes less than.

2.3 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>1</u>	<u>2</u>	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	1000
Di-n-penty1 phthalate(DPENP)	131-18-0	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	1000

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Test Report

Date : 2025-07-29

Page 11 of 32

No. : SP25060270

Test Results:

Test Item	CAS No.	Result(ppm)			Limit (ppm)
		3+4+5	6	7	
Di-n-butyl phthalate (DBP)	84-74-2	116	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	144	<100	226	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	111	<100	<100	1000
Di-n-penty1 phthalate(DPENP)	131-18-0	<100	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	<100	1000

Test Item	CAS No.	Result(ppm)		Limit (ppm)
		8	9	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	1000
Di-n-penty1 phthalate(DPENP)	131-18-0	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	1000

Test Item	CAS No.	Result(ppm)		Limit (ppm)
		17	18	
Di-n-butyl phthalate (DBP)	84-74-2	<100	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	<100	1000
Di-n-penty1 phthalate(DPENP)	131-18-0	<100	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	<100	1000

Test Item	CAS No.	Result(ppm)	Limit (ppm)
		19	
Di-n-butyl phthalate (DBP)	84-74-2	<100	1000
Benzyl-n-butyl phthalate (BBP)	85-68-7	<100	1000
Di (2-ethylhexyl) phthalate (DEHP)	117-81-7	<100	1000
Diisononyl phthalate (DINP)	28553-12-0	<100	1000
Di-n-Hexyl phthalate (DnHP)	84-75-3	<100	1000
Di-isobutyl phthalate(DIBP)	84-69-5	<100	1000
Di-n-penty1 phthalate(DPENP)	131-18-0	<100	1000
Di-cyclohexyl phthalate(DCHP)	84-61-7	<100	1000

Note: < denotes less than.

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Test Report

Date : 2025-07-29

Page 12 of 32

No. : SP25060270

Test Results:

3. Physical and Mechanical Test

Ref: Toys Regulations SOR/2011-17 and Amending Regulations SOR/2016-195, SOR/2016-302 and SOR/2018-138 under Canada Consumer Product Safety Act

AGE GRADING:

The sample was appropriately age graded with the marking of “5-99 years”.

AGE GRADING FOR TESTING:

5+.

<u>Section</u>	<u>Description</u>	<u>Result</u>
3	General - English and French bilingual statement	NA
4	Packaging	
-	(a) The opening perimeter is less than 14 inches	NA
-	(b) The opening perimeter is more than 14 inches	NA
-	<u>Electrical hazard</u>	
5	Electrically operated toys	NA
6	Electrically heated toys	NA
-	<u>Mechanical hazard</u>	
7	Small parts	NA
8	Metal edges	NA
9	Wire frames	NA
10	Plastic edges	Pass
11	Wooden surfaces, edges and corners	NA
12	Glass	NA
13	Fasteners	NA
14	Folding mechanism, bracket and bracing	NA
15	Spring-wound driving mechanisms	NA
16	Projectile Components	NA
17	Toys which a child can enter and which can be closed by a lid or door	NA
18	Stationary toy intended to bear the weight of a child	NA
-	<u>Auditory hazards</u>	
19	Decibel limit	NA
-	<u>Thermal hazards</u>	
20	Heating surfaces, parts or substances	NA
-	<u>Dolls, plush toys and soft toys</u>	
28	Fastenings	NA
29	Stuffing materials	NA
30	Small parts - Squeaker, reed, valve or other similar device	NA
31	Eyes or nose	NA
-	<u>Plant Seed</u>	

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Test Report

Date : 2025-07-29

Page 13 of 32

No. : SP25060270

Section	Description	Result
35	Plant Seed – noise	NA
36	Plant Seed – stuffing material	NA
-	<u>Pull and push toys</u>	
37	Shaft-like handle	NA
-	<u>Toy Steam Engines</u>	
38	Toy steam engine boiler	NA
39	Finger Paints	NA
40	Rattles	NA
41	Elastics	NA
42	Yo-yo balls	
-	(1) Stretchable cords	NA
-	(2) Similar product	NA
43	Magnetic Toys	NA
44	Warning of magnetic toys	NA
-	<u>Toys Intended to be Entered by a Child</u>	
46	Requirements and testing of toys intended to be entered by a child	NA
47	Warning of toys intended to be entered by a child	NA

4. Cellulose Nitrate and Celluloid

Ref.: Toys Regulations SOR/2011-17 section 21 and Amending Regulations SOR/2016-195, SOR/2016-302 and SOR/2018-138 under Canada Consumer Product Safety Act

	<u>Assessment</u>	<u>Requirement</u>	<u>Result</u>
Cellulose Nitrate/Celluloid	Absent	Absent	Pass

5. Toxic elements analysis

Ref.: Toys Regulations SOR/2011-17 section 23 and amendment SOR/2022-122 under Canada Consumer Product Safety Act.

Test Methods: Method C-02.2.2, C-07, C-08.1 published in Health Canada Product safety reference manual Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section.

Determined by: Inductively Coupled Plasma Optical Emission Spectrometer

<u>Test Item</u>	<u>Result</u>	<u>Limit</u>
	<u>1</u>	
Total lead	<10mg/kg	90mg/kg
Total mercury	<5mg/kg	10mg/kg
Soluble cadmium	<0.001%	0.1%
Soluble barium	<0.001%	0.1%
Soluble antimony	<0.001%	0.1%
Soluble arsenic	<0.001%	0.1%
Soluble selenium	<0.001%	0.1%

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Test Report

Date : 2025-07-29

Page 14 of 32

No. : SP25060270

Test Results:

6. Phthalates content

Ref.: Phthalates Regulations SOR/2016-188 under Canada Consumer Product Safety Act.
Test Methods: Method C-34.3 published in Health Canada Product safety reference manual Book 5 –
Laboratory Policies and Procedures Part B: Test Methods Section.
Determined by: Gas Chromatography Mass Spectrometer

A. For toys and child care articles

Test Item	CAS No.	Result(ppm)			Limit(ppm)
		1	2	3+4+5	
Dibutyl phthalate(DBP)	84-74-2	<100	<100	116	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	<100	144	1000

Test Item	CAS No.	Result(ppm)				Limit(ppm)
		6	7	8	9	
Dibutyl phthalate(DBP)	84-74-2	<100	<100	<100	<100	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	<100	<100	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	226	<100	<100	1000

Test Item	CAS No.	Result(ppm)			Limit(ppm)
		17	18	19	
Dibutyl phthalate(DBP)	84-74-2	<100	<100	<100	1000
Butyl benzyl phthalate (BBP)	85-68-7	<100	<100	<100	1000
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<100	<100	<100	1000

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

Test Item	CAS No.	Result(ppm)			Limit(ppm)
		1	2	3+4+5	
Di-n-octyl phthalate(DNOP)	117-84-0	<100	<100	<100	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	<100	<100	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	<100	<100	1000

Test Item	CAS No.	Result(ppm)				Limit(ppm)
		6	7	8	9	
Di-n-octyl phthalate(DNOP)	117-84-0	<100	<100	<100	<100	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	<100	<100	<100	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	<100	<100	<100	1000

Test Item	CAS No.	Result(ppm)			Limit(ppm)
		17	18	19	
Di-n-octyl phthalate(DNOP)	117-84-0	<100	<100	<100	1000
Di-iso-decyl phthalate(DIDP)	26761-40-0	<100	<100	<100	1000
Di-iso-nonyl phthalate(DINP)	28553-12-0	<100	<100	<100	1000

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Test Report

Date : 2025-07-29

Page 15 of 32

No. : SP25060270

Test Results:

7. Total lead content

Ref.: Consumer Products Containing Lead Regulations SOR/2018-83.

Test Methods: CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Test Item	Result(mg/kg)					Limit(mg/kg)
	1	2	3+4+5	6+7	8	
Total lead	<10	<10	<10	<10	<10	90

Test Item	Result(mg/kg)					Limit(mg/kg)
	9	10	17	18	19	
Total lead	<10	<10	<10	<10	<10	90

Note: < denotes less than.

8. Total lead and mercury content in surface coating

Ref.: Surface Coating Materials Regulations SOR/2016-193 Section 5 & 6 and amendment SOR/2022-122 for total lead content test.

Test Methods: Method C-02.2.2, C-07 published in Health Canada Product safety reference manual

Book 5 – Laboratory Policies and Procedures Part B: Test Methods Section.

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Test Item	Result(mg/kg)		Limit(mg/kg)
	1	2	
Total lead	<10	<10	90
Total mercury	<5	<5	10

9. European Standard for Safety of Toys

AGE GRADING:

The sample was appropriately age graded with the marking of “5-99 years”.

AGE GRADING FOR TESTING:

5+.

9.1 EN71-1:2014+A1:2018- Part 1: Mechanical and physical properties

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4	General requirements	---
4.1	Material cleanliness	Pass
4.2	Assembly	Pass
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA

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Test Report

Date : 2025-07-29

Page 16 of 32

No. : SP25060270

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
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 in the 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	Pass
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing a non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.24	Yo-yo ball	NA
4.25	Toy attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	----
4.27.1	General	NA
4.27.2	Rotors and propellers on flying toys	NA
4.27.3	Rotors and propellers on remote controlled flying toys	NA
5	Toys intended for children under 36 months	----
5.1	General requirements	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, string and electrical cable in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toy comprising monofilament fiber	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric shaped toys	NA
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15	Sledges with cords for pulling	NA
6	Packaging	NA

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Test Report

Date : 2025-07-29

Page 17 of 32

No. : SP25060270

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
7	Marking and instructions for use (EC Directive)	Pass

Note: NA = Not Applicable

9.2 EN71-2:2020- Part 2: Flammability

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General requirements	Pass
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys	NA

Note: NA = Not Applicable

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

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

9.3.1 Category III: Scraped-off toy material

Elements	Result (mg/kg)							Limit(mg/kg)
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	
Aluminium	26	<5	23	9	<5	<5	<5	28130
Antimony	<5	<5	<5	<5	<5	<5	<5	560
Arsenic	<2	<2	<2	<2	<2	<2	<2	47
Barium	<5	<5	<5	<5	8	<5	<5	18750
Boron	<5	<5	<5	<5	<5	<5	<5	15000
Cadmium	<5	<5	<5	<5	<5	<5	<5	17
Chromium(III)	<5	<5	<5	<5	<5	<5	<5	460
Chromium (VI)	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	0.053
Cobalt	<5	<5	<5	<5	<5	<5	<5	130
Copper	<5	<5	<5	<5	<5	<5	<5	7700
Lead	<5	<5	<5	<5	<5	<5	<5	23
Manganese	<5	<5	<5	<5	<5	<5	<5	15000
Mercury	<5	<5	<5	<5	<5	<5	<5	94
Nickel	<5	<5	<5	<5	<5	<5	<5	930
Selenium	<5	<5	<5	<5	<5	<5	<5	460
Strontium	<5	<5	<5	<5	<5	<5	<5	56000
Tin	<5	<5	<5	<5	<5	<5	<5	180000
Organic tin	<5	<5	<5	<5	<5	<5	<5	12
Zinc	<5	8	<5	<5	<5	<5	<5	46000

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Test Report

Date : 2025-07-29

Page 18 of 32

No. : SP25060270

Test Results:

Elements	Result (mg/kg)							Limit(mg/kg)
	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	
Aluminium	<5	<5	16	<5	13	60	60	28130
Antimony	<5	<5	<5	<5	<5	<5	<5	560
Arsenic	<2	<2	<2	<2	<2	<2	<2	47
Barium	<5	<5	<5	<5	<5	<5	<5	18750
Boron	<5	<5	19	<5	<5	<5	<5	15000
Cadmium	<5	<5	<5	<5	<5	<5	<5	17
Chromium(III)	<5	<5	<5	<5	<5	<5	<5	460
Chromium (VI)	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	0.053
Cobalt	<5	<5	<5	<5	<5	<5	<5	130
Copper	<5	<5	<5	<5	<5	<5	<5	7700
Lead	<5	<5	<5	<5	<5	<5	<5	23
Manganese	<5	<5	155	<5	<5	<5	<5	15000
Mercury	<5	<5	<5	<5	<5	<5	<5	94
Nickel	<5	<5	102	<5	<5	<5	<5	930
Selenium	<5	5	<5	<5	<5	<5	<5	460
Strontium	<5	<5	<5	<5	<5	<5	<5	56000
Tin	<5	<5	49	<5	<5	<5	<5	180000
Organic tin	<5	<5	<5	<5	<5	<5	<5	12
Zinc	436	<5	<5	<5	174	249	281	46000

Elements	Result (mg/kg)				Limit(mg/kg)
	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	
Aluminium	<5	46	23	<5	28130
Antimony	<5	<5	<5	<5	560
Arsenic	<2	<2	<2	<2	47
Barium	<5	<5	<5	<5	18750
Boron	<5	<5	<5	<5	15000
Cadmium	<5	<5	<5	<5	17
Chromium(III)	<5	<5	<5	<5	460
Chromium (VI)	<0.053	<0.053	<0.053	<0.053	0.053
Cobalt	<5	<5	<5	<5	130
Copper	<5	<5	<5	<5	7700
Lead	<5	<5	<5	<5	23
Manganese	<5	<5	<5	<5	15000
Mercury	<5	<5	<5	<5	94
Nickel	<5	<5	<5	<5	930
Selenium	<5	<5	<5	10	460
Strontium	<5	<5	<5	<5	56000
Tin	<5	<5	<5	<5	180000
Organic tin	<5	<5	<5	<5	12
Zinc	14	15	<5	9	46000

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Test Report

Date : 2025-07-29

Page 19 of 32

No. : SP25060270

Test Results:

Remark: mg/kg = milligram per kilogram

The Chromium content was reported as Chromium (III) and Chromium (VI). Whenever the result of Chromium exceeded the limit of Chromium (III) and Chromium (VI), confirmation test was performed. Chromium (III) is calculated by subtracting the Chromium (VI) concentration from the total Chromium concentration.

The Tin content was reported as Organic tin unless specified.

9.4 EN71-3:2019+A2:2024, migration of certain elements

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

9.4.1 Category III: Scraped-off toy material

Elements	Result (mg/kg)							Limit(mg/kg)
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	
Aluminium	26	<5	23	9	<5	<5	<5	28130
Antimony	<5	<5	<5	<5	<5	<5	<5	560
Arsenic	<2	<2	<2	<2	<2	<2	<2	47
Barium	<5	<5	<5	<5	8	<5	<5	18750
Boron	<5	<5	<5	<5	<5	<5	<5	15000
Cadmium	<5	<5	<5	<5	<5	<5	<5	17
Chromium(III)	<5	<5	<5	<5	<5	<5	<5	460
Chromium (VI)	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	0.053
Cobalt	<5	<5	<5	<5	<5	<5	<5	130
Copper	<5	<5	<5	<5	<5	<5	<5	7700
Lead	<5	<5	<5	<5	<5	<5	<5	23
Manganese	<5	<5	<5	<5	<5	<5	<5	15000
Mercury	<5	<5	<5	<5	<5	<5	<5	94
Nickel	<5	<5	<5	<5	<5	<5	<5	930
Selenium	<5	<5	<5	<5	<5	<5	<5	460
Strontium	<5	<5	<5	<5	<5	<5	<5	56000
Tin	<5	<5	<5	<5	<5	<5	<5	180000
Organic tin	<5	<5	<5	<5	<5	<5	<5	12
Zinc	<5	8	<5	<5	<5	<5	<5	46000

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Test Report

Date : 2025-07-29

Page 20 of 32

No. : SP25060270

Test Results:

Elements	Result (mg/kg)							Limit(mg/kg)
	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	
Aluminium	<5	<5	16	<5	13	60	60	28130
Antimony	<5	<5	<5	<5	<5	<5	<5	560
Arsenic	<2	<2	<2	<2	<2	<2	<2	47
Barium	<5	<5	<5	<5	<5	<5	<5	18750
Boron	<5	<5	19	<5	<5	<5	<5	15000
Cadmium	<5	<5	<5	<5	<5	<5	<5	17
Chromium(III)	<5	<5	<5	<5	<5	<5	<5	460
Chromium (VI)	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	<0.053	0.053
Cobalt	<5	<5	<5	<5	<5	<5	<5	130
Copper	<5	<5	<5	<5	<5	<5	<5	7700
Lead	<5	<5	<5	<5	<5	<5	<5	23
Manganese	<5	<5	155	<5	<5	<5	<5	15000
Mercury	<5	<5	<5	<5	<5	<5	<5	94
Nickel	<5	<5	102	<5	<5	<5	<5	930
Selenium	<5	5	<5	<5	<5	<5	<5	460
Strontium	<5	<5	<5	<5	<5	<5	<5	56000
Tin	<5	<5	49	<5	<5	<5	<5	180000
Organic tin	<5	<5	<5	<5	<5	<5	<5	12
Zinc	436	<5	<5	<5	174	249	281	46000

Elements	Result (mg/kg)				Limit(mg/kg)
	<u>15</u>	<u>16</u>	<u>17</u>	<u>18</u>	
Aluminium	<5	46	23	<5	28130
Antimony	<5	<5	<5	<5	560
Arsenic	<2	<2	<2	<2	47
Barium	<5	<5	<5	<5	18750
Boron	<5	<5	<5	<5	15000
Cadmium	<5	<5	<5	<5	17
Chromium(III)	<5	<5	<5	<5	460
Chromium (VI)	<0.053	<0.053	<0.053	<0.053	0.053
Cobalt	<5	<5	<5	<5	130
Copper	<5	<5	<5	<5	7700
Lead	<5	<5	<5	<5	23
Manganese	<5	<5	<5	<5	15000
Mercury	<5	<5	<5	<5	94
Nickel	<5	<5	<5	<5	930
Selenium	<5	<5	<5	10	460
Strontium	<5	<5	<5	<5	56000
Tin	<5	<5	<5	<5	180000
Organic tin	<5	<5	<5	<5	12
Zinc	14	15	<5	9	46000

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Test Report

Date : 2025-07-29

Page 21 of 32

No. : SP25060270

Test Results:

Remark: mg/kg = milligram per kilogram

The Chromium content was reported as Chromium (III) and Chromium (VI). Whenever the result of Chromium exceeded the limit of Chromium (III) and Chromium (VI), confirmation test was performed. Chromium (III) is calculated by subtracting the Chromium (VI) concentration from the total Chromium concentration.

The Tin content was reported as Organic tin unless specified.

10. 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

Test method: ISO 8124-6:2023

Determined by: Gas Chromatography-Mass Spectrometry

A. For toys and childcare articles

Test Item	CAS No.	Result			Limit
		1	2	3+4+5	
Dibutyl phthalate(DBP)	84-74-2	<0.005%	<0.005%	0.0116%	<0.1%
Butyl benzyl phthalate (BBP)	85-68-7	<0.005%	<0.005%	<0.005%	
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<0.005%	<0.005%	0.0144%	
Di-isobutyl phthalate(DIBP)	84-69-5	<0.005%	<0.005%	0.0111%	

Test Item	CAS No.	Result			Limit
		6	8	9	
Dibutyl phthalate(DBP)	84-74-2	<0.005%	<0.005%	<0.005%	<0.1%
Butyl benzyl phthalate (BBP)	85-68-7	<0.005%	<0.005%	<0.005%	
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<0.005%	<0.005%	<0.005%	
Di-isobutyl phthalate(DIBP)	84-69-5	<0.005%	<0.005%	<0.005%	

Test Item	CAS No.	Result			Limit
		17	18	19	
Dibutyl phthalate(DBP)	84-74-2	<0.005%	<0.005%	<0.005%	<0.1%
Butyl benzyl phthalate (BBP)	85-68-7	<0.005%	<0.005%	<0.005%	
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	<0.005%	<0.005%	<0.005%	
Di-isobutyl phthalate(DIBP)	84-69-5	<0.005%	<0.005%	<0.005%	

Test Item	CAS No.	Result			Limit
		7			
Dibutyl phthalate(DBP)	84-74-2	<0.005%			<0.1%
Butyl benzyl phthalate (BBP)	85-68-7	<0.005%			
Di -2-ethylhexyl phthalate (DEHP)	117-81-7	0.0226%			
Di-isobutyl phthalate(DIBP)	84-69-5	<0.005%			

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Test Report

Date : 2025-07-29

Page 22 of 32

No. : SP25060270

Test Results:

B. Additional requirements for toys and children articles, which can be placed in mouth by the children

Test Item	CAS No.	Result			Limit
		1	2	3+4+5	
Di-n-octyl phthalate(DNOP)	117-84-0	<0.005%	<0.005%	<0.005%	<0.1%
Di-iso-decyl phthalate(DIDP)	26761-40-0	<0.005%	<0.005%	<0.005%	
Di-iso-nonyl phthalate(DINP)	28553-12-0	<0.005%	<0.005%	<0.005%	

Test Item	CAS No.	Result			Limit
		6	8	9	
Di-n-octyl phthalate(DNOP)	117-84-0	<0.005%	<0.005%	<0.005%	<0.1%
Di-iso-decyl phthalate(DIDP)	26761-40-0	<0.005%	<0.005%	<0.005%	
Di-iso-nonyl phthalate(DINP)	28553-12-0	<0.005%	<0.005%	<0.005%	

Test Item	CAS No.	Result			Limit
		17	18	19	
Di-n-octyl phthalate(DNOP)	117-84-0	<0.005%	<0.005%	<0.005%	<0.1%
Di-iso-decyl phthalate(DIDP)	26761-40-0	<0.005%	<0.005%	<0.005%	
Di-iso-nonyl phthalate(DINP)	28553-12-0	<0.005%	<0.005%	<0.005%	

Test Item	CAS No.	Result	Limit
		7	
Di-n-octyl phthalate(DNOP)	117-84-0	<0.005%	<0.1%
Di-iso-decyl phthalate(DIDP)	26761-40-0	<0.005%	
Di-iso-nonyl phthalate(DINP)	28553-12-0	<0.005%	

Note: < denotes less than.

11. 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

Tested Method: EN 1122: 2001(E) method B

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Test sample	Result (mg/kg)	Limit(mg/kg)
1	<5	100
2	<5	100
3+4+5	<5	100
6+7	<5	100
8	<5	100
9	<5	100
10	<5	100
17	<5	100
18	<5	100
19	<5	100

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Test Report

Date : 2025-07-29

Page 23 of 32

No. : SP25060270

Test Results:

- Notes:
1. mg/kg denotes milligram per kilogram.
 2. Method detection limit=5mg/kg.
 3. < denotes less than.

12. Total Lead content

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

Test method: CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3, CPSC-CH-E1003-09.1

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

<u>Test sample</u>	<u>Result (mg/kg)</u>	<u>Limit(mg/kg)</u>
<u>1</u>	<10	500
<u>2</u>	<10	500
<u>3+4+5</u>	<10	500
<u>6+7</u>	<10	500
<u>8</u>	<10	500
<u>9</u>	<10	500
<u>10</u>	<10	500
<u>17</u>	<10	500
<u>18</u>	<10	500
<u>19</u>	<10	500

- Notes:
1. mg/kg denotes milligram per kilogram.
 2. Method detection limit=10mg/kg.
 3. < denotes less than.

13. 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

Test Method: AfPS GS 2019: 01PAK

Determined by: Gas Chromatography Mass Spectrometer

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

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Test Report

Date : 2025-07-29

Page 24 of 32

No. : SP25060270

Test Results:

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

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

No	Test Item(s)	CAS No.	Result(mg/kg)		Limit (mg/kg)
			17	18	
1	Benzo (a) anthracene	56-55-3	ND	ND	0.5
2	Chrysene	218-01-9	ND	ND	0.5
3	Benzo (b) fluoranthene	205-99-2	ND	ND	0.5
4	Benzo (k) fluoranthene	207-08-9	ND	ND	0.5
5	Benzo (a) pyrene	50-32-8	ND	ND	0.5
6	Dibenzo (a,h) anthracene	53-70-3	ND	ND	0.5
7	Benzo (e) pyrene	192-97-2	ND	ND	0.5
8	Benzo (j) fluoranthene	205-82-3	ND	ND	0.5

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Test Report

Date : 2025-07-29

Page 25 of 32

No. : SP25060270

Test Results:

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

Note(s): 1. Method detection limit = 0.2 mg/kg(Each).
2. ND = Not detected
3. mg/kg = milligram per kilogram.

14.Australian/ New Zealand Standard for Safety of Toys

AGE GRADING:

The sample was appropriately age graded with the marking of “5-99 years”.

AGE GRADING FOR TESTING:

5+.

14.1 AS/ NZS ISO 8124.1:2023

Part 1: safety aspects related to mechanical and physical properties

Applicable Clause	Description	Result
4.1	General	----
4.1.1	Normal Use	Pass
4.2	Reasonably Foreseeable Abuse	Pass
4.3	<u>Material</u>	----
4.3.1	Material quality	Pass
4.5	<u>Shape, size and strength of certain toys</u>	----
4.5.2	Small balls	Pass
4.6	<u>Edges</u>	----
4.6.4	Edges on moulded toys	Pass
4.7	<u>Points</u>	----
4.7.1	Accessible sharp points	Pass
4.36	<u>Assembly</u>	----
4.36.1	General	Pass
4.36.3	Toys intended to be assembled by an adult	Pass
4.39	Inflatable toys	Pass
Annex B.2	<u>Safety-Labeling Guidelines</u>	----
Annex B.2.1	Label definition and location	Pass

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Test Report

Date : 2025-07-29

Page 26 of 32

No. : SP25060270

Applicable Clause	Description	Result
Annex B.2.2	Age Grading	Pass
Annex B.2.8	Toys intended to be assembled by an adult	Pass
Annex B.3	<u>Instructional literature</u>	----
Annex B.3.1	Information and instructions	Pass
Annex B.3.6	Toys intended to be assembled by an adult	Pass
Annex B.4	Manufacturer's markings	Pass

14.2 AS/ NZS ISO 8124.2:2023 - Part 2: Flammability

<u>Applicable Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General	Pass

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

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	8ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	15ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	500ppm
	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	500ppm

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Test Report

Date : 2025-07-29

Page 27 of 32

No. : SP25060270

Test Results:

	<u>16</u>	<u>17</u>	<u>18</u>	<u>Limit</u>
Soluble lead.....	<5ppm	<5ppm	<5ppm	90ppm
Soluble cadmium.....	<5ppm	<5ppm	<5ppm	75ppm
Soluble chromium.....	<5ppm	<5ppm	<5ppm	60ppm
Soluble barium.....	<5ppm	<5ppm	<5ppm	1000ppm
Soluble antimony.....	<5ppm	<5ppm	<5ppm	60ppm
Soluble arsenic.....	<2ppm	<2ppm	<2ppm	25ppm
Soluble mercury.....	<5ppm	<5ppm	<5ppm	60ppm
Soluble selenium.....	<5ppm	<5ppm	10ppm	500ppm

Note: < denotes less than.

15. Alkanes, C10-13, Chloro (Short Chain Chlorinated Paraffins) content

Ref: the POPs Regulation (EU) No.850/2004 and its amendment (EU)2015/2030, (EU)2019/1021

Method Used: EPA3550C:2007

Determined by : Gas Chromatography with Mass Selective Detector

<u>Sample</u>	<u>Test Item</u>	<u>CAS No.</u>	<u>Result (%)</u>	<u>Limit(%)</u>
<u>1</u>	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.15
<u>2</u>	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.15
<u>3+4+5</u>	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.15
<u>6+7</u>	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.15
<u>8</u>	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.15
<u>9</u>	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.15
<u>17</u>	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.15
<u>18</u>	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.15
<u>19</u>	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	ND	0.15

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Test Report

Date : 2025-07-29

Page 28 of 32

No. : SP25060270

Test Results:

Note(s): - ND = Not detected
- Method detection limit:0.005%

16.Polycyclic Aromatic Hydrocarbons (PAHS) content

Ref.: AfPS GS 2019:01 PAK

Determined by: Gas Chromatography Mass Spectrometer

No	Test Item(s)	CAS No.	Result(mg/kg)			Category 2b
			1	2	3+4+5	Limit (mg/kg)
(1)	Naphthalene	91-20-3	< 0.2	< 0.2	1.83	< 2
(2)	Phenanthrene	85-01-8	< 0.2	< 0.2	< 0.2	Sum<10
(3)	Pyrene	129-00-0	< 0.2	< 0.2	< 0.2	
(4)	Anthracene	120-12-7	< 0.2	< 0.2	< 0.2	
(5)	Fluoranthene	260-44-0	< 0.2	< 0.2	< 0.2	
(6)	Benzo (a) pyrene	50-32-8	< 0.2	< 0.2	< 0.2	< 0.5
(7)	Benzo (e) pyrene	192-97-2	< 0.2	< 0.2	< 0.2	< 0.5
(8)	Benzo (a) anthracene	56-55-3	< 0.2	< 0.2	< 0.2	< 0.5
(9)	Benzo (b) fluoranthene	205-99-2	< 0.2	< 0.2	< 0.2	< 0.5
(10)	Benzo (j) fluoranthene	205-82-3	< 0.2	< 0.2	< 0.2	< 0.5
(11)	Benzo (k) fluoranthene	207-08-9	< 0.2	< 0.2	< 0.2	< 0.5
(12)	Chrysene	218-01-9	< 0.2	< 0.2	< 0.2	< 0.5
(13)	Dibenzo (a,h) anthracene	53-70-3	< 0.2	< 0.2	< 0.2	< 0.5
(14)	Benzo (g,h,i) perylene	191-24-2	< 0.2	< 0.2	< 0.2	< 0.5
(15)	Indeno (1,2,3-cd) pyrene	193-39-5	< 0.2	< 0.2	< 0.2	< 0.5
Sum 15 PAHs		-	< 1	< 1	1.83	< 10

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Test Report

Date : 2025-07-29

Page 29 of 32

No. : SP25060270

Test Results:

No	Test Item(s)	CAS No.	Result(mg/kg)			Category 2b
			6+7	8	9	Limit (mg/kg)
(1)	Naphthalene	91-20-3	< 0.2	< 0.2	< 0.2	< 2
(2)	Phenanthrene	85-01-8	< 0.2	< 0.2	< 0.2	Sum<10
(3)	Pyrene	129-00-0	< 0.2	< 0.2	< 0.2	
(4)	Anthracene	120-12-7	< 0.2	< 0.2	< 0.2	
(5)	Fluoranthene	260-44-0	< 0.2	< 0.2	< 0.2	
(6)	Benzo (a) pyrene	50-32-8	< 0.2	< 0.2	< 0.2	< 0.5
(7)	Benzo (e) pyrene	192-97-2	< 0.2	< 0.2	< 0.2	< 0.5
(8)	Benzo (a) anthracene	56-55-3	< 0.2	< 0.2	< 0.2	< 0.5
(9)	Benzo (b) fluoranthene	205-99-2	< 0.2	< 0.2	< 0.2	< 0.5
(10)	Benzo (j) fluoranthene	205-82-3	< 0.2	< 0.2	< 0.2	< 0.5
(11)	Benzo (k) fluoranthene	207-08-9	< 0.2	< 0.2	< 0.2	< 0.5
(12)	Chrysene	218-01-9	< 0.2	< 0.2	< 0.2	< 0.5
(13)	Dibenzo (a,h) anthracene	53-70-3	< 0.2	< 0.2	< 0.2	< 0.5
(14)	Benzo (g,h,i) perylene	191-24-2	< 0.2	< 0.2	< 0.2	< 0.5
(15)	Indeno (1,2,3-cd) pyrene	193-39-5	< 0.2	< 0.2	< 0.2	< 0.5
Sum 15 PAHs		-	< 1	< 1	< 1	< 10

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Test Report

Date : 2025-07-29

Page 30 of 32

No. : SP25060270

Test Results:

No	Test Item(s)	CAS No.	Result(mg/kg)			Category 2b
			17	18	19	Limit (mg/kg)
(1)	Naphthalene	91-20-3	0.58	0.65	< 0.2	< 2
(2)	Phenanthrene	85-01-8	< 0.2	< 0.2	< 0.2	Sum<10
(3)	Pyrene	129-00-0	< 0.2	< 0.2	< 0.2	
(4)	Anthracene	120-12-7	< 0.2	< 0.2	< 0.2	
(5)	Fluoranthene	260-44-0	< 0.2	< 0.2	< 0.2	
(6)	Benzo (a) pyrene	50-32-8	< 0.2	< 0.2	< 0.2	< 0.5
(7)	Benzo (e) pyrene	192-97-2	< 0.2	< 0.2	< 0.2	< 0.5
(8)	Benzo (a) anthracene	56-55-3	< 0.2	< 0.2	< 0.2	< 0.5
(9)	Benzo (b) fluoranthene	205-99-2	< 0.2	< 0.2	< 0.2	< 0.5
(10)	Benzo (j) fluoranthene	205-82-3	< 0.2	< 0.2	< 0.2	< 0.5
(11)	Benzo (k) fluoranthene	207-08-9	< 0.2	< 0.2	< 0.2	< 0.5
(12)	Chrysene	218-01-9	< 0.2	< 0.2	< 0.2	< 0.5
(13)	Dibenzo (a,h) anthracene	53-70-3	< 0.2	< 0.2	< 0.2	< 0.5
(14)	Benzo (g,h,i) perylene	191-24-2	< 0.2	< 0.2	< 0.2	< 0.5
(15)	Indeno (1,2,3-cd) pyrene	193-39-5	< 0.2	< 0.2	< 0.2	< 0.5
Sum 15 PAHs		-	0.58	0.65	< 1	< 10

- Note(s):
1. Method detection limit = 0.2 mg/kg(Each).
 2. ND = Not detected
 3. mg/kg = milligram per kilogram.
 4. Category 2b: Materials not covered by category 1, 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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Test Report

Date : 2025-07-29

Page 31 of 32

No. : SP25060270

Test Results:

17.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: ISO14362-1: 2017

Determined by: Gas Chromatography-Mass Spectrometry

Aromatic Amines		Result(mg/kg)		
CAS No.	Name	11	12+13+14	15+16
92-67-1	4-aminobiphenyl	ND	ND	ND
92-87-5	Benzidine	ND	ND	ND
95-69-2	4-Chloro-o-toluidine	ND	ND	ND
91-59-8	2-Naphthylamine	ND	ND	ND
97-56-3	o-Aminoazotulene	ND	ND	ND
99-55-8	5-Nitro-o-toluidine	ND	ND	ND
106-47-8	4-Chloroaniline	ND	ND	ND
615-05-4	4-Methoxy-m-phenylenediamine	ND	ND	ND
101-77-9	4,4' -Methylenedianiline	ND	ND	ND
91-94-1	3,3' -Dichlorobenzidine	ND	ND	ND
119-90-4	3,3' -Dimethoxybenzidine	ND	ND	ND
119-93-7	3,3' -Dimethybenzidine	ND	ND	ND
838-88-0	4,4' -Methylenedi-o-toluidine	ND	ND	ND
120-71-8	6-Methoxy-m-toluidine	ND	ND	ND
101-14-4	2,2' -Dichloro-4,4' - methylenedianiline	ND	ND	ND
101-80-4	4,4' -Oxydianiline	ND	ND	ND
139-65-1	4,4' -Thiodianiline	ND	ND	ND
95-53-4	o-Toluidine	ND	ND	ND
95-80-7	4-Methy-m-phenylenediamine	ND	ND	ND
137-17-7	2,4,5-Trimethylaniline	ND	ND	ND
90-04-0	2-Methoxyaniline	ND	ND	ND
60-09-3	4-Amino-azo-benzene	ND	ND	ND

- Notes:
1. Maximum permissible limit=30mg/kg.
 2. Method detection limit=5mg/kg.
 3. mg/kg denotes milligram per kilogram.
 4. ND denotes not detected.

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Test Report

Date : 2025-07-29

No. : SP25060270

Page 32 of 32

The photo of submitted samples



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

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