

Test Report

Number: GZHH00652962

Applicant: 52TOYS DEVELOPMENT CO., LTD.
601-01, 6/F, UNIT 1, BUILDING 1, NO. 1
EAST THIRD RING MIDDLE ROAD, CHAOYANG
DISTRICT, BEIJING, CHINA

Date: Jul 21, 2026

Sample Description:

Five (5) sets of submitted sample said to be :
Item Name : **Minions & Monsters Studio Adventure Series**
Item No. : **26CBWU111MMS**
Labelled Age Group : **15&UP**
Appropriate Age Grading for : **Over 3 years**
Testing
Packaging Provided by : **Yes**
Applicant
Country of Origin : **China**
Date Sample Received : **Jun 30, 2026 & Jul 10, 2026 & Jul 13, 2026**
Testing Period : **Jun 30, 2026 ~ Jul 21, 2026**



Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

To be continued



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Conclusion:

<u>Tested sample</u> Submitted sample(s)	<u>Standard/ Testing Item</u>	<u>Result</u>
	U.S. ASTM F963-23 Physical and mechanical tests	Pass
	U.S. ASTM F963-23 Flammability Flammability test of materials other than textile materials	Pass
Tested component(s) of submitted sample(s)	U.S. ASTM F963-23 Section 4.3.5.1 on soluble heavy elements test in surface coating	Pass
	U.S. ASTM F963-23 Section 4.3.5.2 on soluble heavy elements test in substrate	Pass
	U.S. ASTM F963-23 Section 4.3.5.2 on total Lead content in substrate	Pass
	U.S. ASTM F963-23 Section 4.3.5.1 on total Lead content in surface coating	Pass
	U.S. ASTM F963-23 Section 4.3.5.2 on soluble Cadmium content test	Not Applicable
Submitted sample(s)	U.S. CFR Title 16 (CPSC Regulations) Physical and mechanical tests	Pass
	U.S. CFR Title 16 (CPSC Regulations) Part 1500.3(C)(6)(vi) flammability test on rigid and pliable solids	Pass
Tested component(s) of submitted sample(s)	U.S. 16 CFR Part 1303 total Lead content	Pass
	U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101(15 USC 1278a) for total Lead content in surface coating	Pass
	U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101(15 USC 1278a) for Total Lead content in substrate	Pass
	Consent Judgment No. RG-356892 for Toys on total Lead content based on the California Proposition 65	Pass
	Consent Judgment No. BG-350969 for Toys on phthalate content based on the California Proposition 65	Pass
	Di-iso-nonyl phthalate (DINP) content based on the California Proposition 65	See test conducted

To be continued



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Conclusion:

<u>Tested sample</u>	<u>Standard/ Testing Item</u>	<u>Result</u>
Tested component(s) of submitted sample(s)	U.S. ASTM F963-23 Section 4.3.8 on Phthalate content	Pass
	U.S. Consumer Product Safety Improvement Act 2008 Title I, Sec 108(a) & (b)(3) and U.S. 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass
	U.S. California Health and Safety Code, Part 3 of Division 104, Chapter 11 Phthalates in Products for Young Children (AB 1108) Phthalate Content	Pass
Submitted sample(s)	Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 for mechanical and physical test	Pass
	Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 Section 21	Pass
Tested component(s) of submitted sample(s)	Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 and Amendment SOR/2022-122 Section 23 on toxic elements test	Pass#
	Canada Consumer Products Containing Lead Regulations SOR/2018-83	Pass
	Canada Consumer Product Safety Act Phthalates Regulations SOR/2016-188 on phthalate content	Pass
Submitted sample(s)	EN 71-1: 2026 for mechanical and physical properties	Pass
	EN71-1:2014+A1:2018 for mechanical and physical properties	Pass
	EN 71-2: 2020 Flammability test	Pass
	EN 71-2: 2020+A1:2025 Flammability test	Pass
	BS EN 71-1: 2026 for mechanical and physical properties	Pass
	BS EN71-1:2014+A1:2018 for mechanical and physical properties	Pass
	BS EN 71-2: 2020 Flammability test	Pass
	BS EN 71-2: 2020+A1:2025 Flammability test	Pass

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Conclusion:

<u>Tested sample</u>	<u>Standard/ Testing Item</u>	<u>Result</u>
Tested component(s) of submitted sample(s)	EN 71-3:2019+A2:2024 on Migration of Certain Elements	Pass
	BS EN 71-3:2019+A2:2024 on Migration of Certain Elements	Pass
	EU REACH Regulation (EC) No 1907/2006 and its Amendment(s) including (EU) 2016/217 Annex XVII Entry 23 on Cadmium (Cd) Content	Pass
	Organotin Content Requirement in Annex XVII Entry 20 of the REACH Regulation (EC) No 1907/2006 and Amendment (EC) No 552/2009 and (EU) No 276/2010	Pass#
	EU REACH Regulation (EC) No 1907/2006 and its Amendment(s) including (EU) 2018/2005 Annex XVII Entries 51 and 52 on Phthalates Content	Pass
	EU REACH Regulation (EC) No 1907/2006 and its Amendment(s) including (EU) No 1272/2013 Annex XVII Entry 50 on Polycyclic Aromatic Hydrocarbons (PAHs) Content	Pass
Submitted sample(s)	International standard ISO 8124-1:2022 - safety aspects related to mechanical and physical properties	Pass
	International Standard on Safety of Toys ISO 8124-2: 2023 Flammability Test	Pass
Tested component(s) of submitted sample(s)	ISO 8124-3:2020+Amd.1:2023 on migration of certain elements	Pass
Submitted sample(s)	Australian / New Zealand Standard AS/NZS ISO 8124.1: 2023 Safety aspects related to mechanical and physical properties	Pass
	Australian / New Zealand Standard on Safety of Toys AS/NZS ISO 8124.2:2023 flammability test	Pass
Tested component(s) of submitted sample(s)	AS/NZS ISO 8124.3:2021+Amd 1:2023 on Migration of Certain Elements from Any Toy Materials Except Modelling Clays and Putties, Finger Paints and Slimes	Pass
	AS/NZS ISO 8124.3:2003 for toxic elements test (Australian Trade Practices Act 1974 with Consumer Protection Notice No. 1 of 2009 - Consumer Product Safety Standard for Lead and Certain Elements in Children's Toys)	Pass#

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Conclusion:

<u>Tested sample</u>	<u>Standard/ Testing Item</u>	<u>Result</u>
Tested component(s) of submitted sample(s)	Canada Consumer Product Safety Act Surface Coating Materials Regulations SOR/2016-193 and Amendment SOR/2022-122 on Lead content	Pass
	Model Toxics in Packaging Legislation on ortho-phthalates test (Toxics in Packaging Clearinghouse TPCH)	Pass#
	Model Toxics in Packaging Legislation on toxic elements test (Toxics in Packaging Clearinghouse TPCH)	Pass#
	EU Packaging and Packaging Waste Regulation (EU) 2025/40 (PPWR) Article 5(4) on Heavy Metals Content	Pass#
	Heavy Metals Content Requirement in Directive 94/62/EC and amendments on packaging and packaging waste	Pass#

: This test in the report is not in the CNAS accredited testing scope.

Approved:

蔡文伟

Wyman Chai
Supervisor



Approved:

黄慧敏

Crystal Huang
Technical Manager

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Tests Conducted

1 Physical and Mechanical Tests

Test Standard : ASTM Standard Consumer Safety Specification for Toy Safety F963-23.

The submitted samples were undergone the use and abuse tests in accordance with the Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations :

Test	FHSA	Parameter
Drop test	Section 1500.53(b)	4 X 3 ft
Torque test	Section 1500.53(e)	4 in-lbf
Tension test	Section 1500.53(f)	15 lbf
Compression test	Section 1500.53(g)	30 lbf

Section	Testing Items	Assessment
4.1	Material quality (visual check on cleanliness)	P
4.3.7	Stuffing materials(10X magnification check on contaminations)	NA
4.5	Sound-producing toys	NA
4.6.1	Toys intended for children under 36 months (small objects)	NA
4.6.2	Mouth-actuated toys	NA
4.6.3	Toys and games for 36 months to 72 months (small part warning)	P
4.7	Accessible edges	P
4.8	Projections	NA
4.9	Accessible points	P
4.10	Wires or rods	NA
4.11	Nails and fasteners	P
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	P
4.18	Holes, clearance, and accessibility of mechanisms	P
4.19	Simulated protective devices (such as helmets, hats and goggles)	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
4.30	Toy gun marking	NA
4.31	Balloons	NA
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	NA



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Tests Conducted

Section	Testing Items	Assessment
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-shaped objects	NA
4.37	YoYo 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	Labelling requirement	
	-Tracking label	P/#
	-Safety labelling	P
6	Instructional literature	P
7	Producer's markings	
7.1	- Name of producer/distributor (Toy and Package)	Yes
	- Address (Package)	Yes
7.2	Battery powered ride on toys	NA
7.3	Toy chests	NA
7.3.1	Name and address of manufacturer/distributor/seller	NA
7.3.2	Code mark	NA
7.3.3	Model number	NA

Remark : The submitted samples were undergone the tests in accordance with section 8.5 through section 8.18 and 8.20 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

Abbreviation: P = Pass NA = Not Applicable

= The results of section 5.1.2 for tracking label was referred to the correspondence test item.

2 **Flammability test**

Test requirement: Section 4.2 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-23, the sample was tested according to Annex A5 Flammability Testing Procedure for Solids and Soft Toys.

Result : Ignited but self-extinguished before burn rate could be determined



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Tests Conducted

3 Heavy Elements Analysis in Surface Coating (U.S. ASTM F963-23 Section 4.3.5.1)

As per Section 4.3.5 and Section 8.3.2 to 8.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-23, heavy elements migration content were determined by Inductively Coupled Plasma - Optical Emission Spectrometry.

Element	Result (ppm)	Detection Limit (ppm)	Limit (ppm)
	Tested component		
	(7), (8), (9), (11), (12), (13), (16)to(21)		
Sol. Barium (Ba)	ND	5	1000
Sol. Lead (Pb)	ND	5	90
Sol. Cadmium (Cd)	ND	5	75
Sol. Antimony (Sb)	ND	5	60
Sol. Selenium (Se)	ND	5	500
Sol. Chromium (Cr)	ND	5	60
Sol. Mercury (Hg)	ND	5	60
Sol. Arsenic (As)	ND	2.5	25

Sol. = Soluble

ppm = part per million = mg/kg

ND = Not detected (less than detection limit)

Tested Components: See component list in the last section of this report

4 Heavy Elements Analysis in Substrate (Except modelling clay) (U.S. ASTM F963-23 Section 4.3.5.2)

As per Section 4.3.5 and Section 8.3.2 to 8.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-23, heavy elements migration content were determined by Inductively Coupled Plasma - Optical Emission Spectrometry.

Element	Result (ppm)	Detection Limit (ppm)	Limit (ppm)
	Tested component		
	(6), (22)to(43)		
Sol. Barium (Ba)	ND	5	1000
Sol. Lead (Pb)	ND	5	90
Sol. Cadmium (Cd)	ND	5	75
Sol. Antimony (Sb)	ND	5	60
Sol. Selenium (Se)	ND	5	500
Sol. Chromium (Cr)	ND	5	60
Sol. Mercury (Hg)	ND	5	60
Sol. Arsenic (As)	ND	2.5	25

Sol. = Soluble

ppm = part per million = mg/kg

ND = Not detected (less than detection limit)

Tested Components: See component list in the last section of this report



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Tests Conducted

5 Total Lead (Pb) Content in Substrate (U.S. ASTM F963-23 Section 4.3.5.2)

With reference to Section 4.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-23, test method CPSC-CH-E1001-08.3 or/and CPSC-CH-E1002-08.3 were used and total Lead content was determined by Inductively Coupled Plasma - Optical Emission Spectrometry and/or Atomic Absorption Spectrometry.

Element	Result (ppm)	Detection Limit (ppm)	Limit (ppm)
	Tested Component		
	(6), (22+23+24), (25+26+27), (28+29+30), (31+32+33), (34+35+36), (37+38+39), (40+41), (42+43), (44+45)		
Lead (Pb)	ND	10	100

ppm = part per million = mg/kg
ND = Not detected (less than detection limit)

Tested Components: See component list in the last section of this report

6 Total Lead (Pb) Content in Surface Coating (U.S. ASTM F963-23 Section 4.3.5.1)

With reference to Section 4.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-23, test method CPSC-CH-E1003-09.1 was used and total Lead content was determined by Inductively Coupled Plasma - Optical Emission Spectrometry.

Element	Result (ppm)	Detection Limit (ppm)	Limit (ppm)
	Tested Component		
	(46+47+48), (49+50+51), (52+53+54), (55+57), (58+59+60), (62+63+64), (65+67+69)		
Lead (Pb)	ND	10	90

ppm = part per million = mg/kg
ND = Not detected (less than detection limit)

Tested Components: See component list in the last section of this report

7 Soluble Cadmium (Cd) content in Metal (small parts) (U.S. ASTM F963-23 Section 4.3.5.2)

As per Section 4.3.5.2(2)(d) and 8.3.5.5(3) of the ASTM Standard Consumer Safety Specification on Toy Safety F963-23, test method CPSC-CH-E1004-11 was used and soluble cadmium content was determined by Inductively Coupled Plasma - Optical Emission Spectrometry.

Assessment: As no metallic toys or metallic toy components which are small parts were found in the submitted samples, no soluble Cadmium testing has been performed for U.S. ASTM F963-23 on soluble Cadmium content.



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Tests Conducted

8 Physical and Mechanical Tests

As per U.S. Code of Federal Regulations Title 16 part 1500.50, the hazards of sharp points, sharp edge and small parts are assessed both before and after applicable use and abuse tests.

	No. of sample tested per style	Sharp Point (1500.48)	Sharp Edge (1500.49)	Small Part (1501)
As received	1	P	P	NA
Impact test (1500.53(b))	1	P	P	NA
Flexure test (1500.53(d))	0	NA	NA	NA
Torque test (1500.53(e))	1	P	P	NA
Tension test (1500.53(f))	1	P	P	NA
Compression test (1500.53(g))	1	P	P	NA

Remark: P = Pass NA = Not Applicable

9 Flammability test

As per U.S. Code of Federal Regulations Title 16 Part 1500.44 for rigid and pliable solids

Result : Ignited but self-extinguished before burn rate could be determined

10 Tracking Label Assessment

As per consumer product safety Act section 14(a) (5), 15 U.S.C. §2063(a)(5) (CPSA) and Consumer Product Safety Improvement Act (CPSIA) 2008 Section 103 Tracking Labels for Children Products

Tracking label found on the packaging:

Name of manufacturer / importer / private labeler:	ShenZhen Tiankun Technology Co.,Ltd
Location of production:	Room 101, No.11, Tianyuan Road, Dongfang Community, Songgang Street, Baoan District, Shenzhen, Guangdong Province, China
Date code:	6G1

Tracking label found on the product:

Name of manufacturer / importer / private labeler:	52TOYS
Location of production:	ShenZhen CHINA
Date code:	6G1

Note: The tracking label assessment was based on the submitted sample and the information provided by the applicant. There was no verification on the validity of such information.



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11 Total Lead (Pb) Content in Surface Coating (U.S. 16 CFR Part 1303 and CPSIA Section 101(15 USC 1278a))

As per Standard Operating Procedure for Determining Lead (Pb) in paint and other similar surface coatings, test method CPSC-CH-E1003-09.1 was used and total Lead content was determined by Inductively Coupled Plasma - Optical Emission Spectrometry.

Element	Result (mg/kg)	Detection Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(46+47+48), (49+50+51), (52+53+54), (55+57), (58+59+60), (62+63+64), (65+67+69)		
Lead (Pb)	ND	10	90

The above limit was quoted according to U.S. 16 CFR Part 1303 and U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101(15 USC 1278a) for total Lead content in surface coating.

ppm = parts per million = mg/kg
ND = Not detected (less than detection limit)

Tested component(s): See component list in the last section of this report

12 Total Lead (Pb) Content in Substrate (U.S. CPSIA Section 101(15 USC 1278a))

As per Standard Operating Procedures for Determining total Lead (Pb) in children's products, test methods CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001-08.3 were used and total Lead content was determined by Inductively Coupled Plasma - Optical Emission Spectrometry and/or Atomic Absorption Spectrometry.

Element	Result (mg/kg)	Detection Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(6), (22+23+24), (25+26+27), (28+29+30), (31+32+33), (34+35+36), (37+38+39), (40+41), (42+43), (44+45)		
Lead (Pb)	ND	10	100

The above limit was quoted according to U.S. Consumer Product Safety Improvement Act 2008 Title I, Section 101(15 USC 1278a) for total Lead content in substrate.

ppm = parts per million = mg/kg
ND = Not detected (less than detection limit)

Tested components: See component list in the last section of this report



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13 Total Lead Content (California Proposition 65 – Toys)

With reference to CPSC-CH-E1002-08.3 and/or CPSC-CH-E1001.08.3 and/or CPSC-CH-E1003-09.1 and followed by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (mg/kg)	Detection Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(46+47+48), (49+50+51), (52+53+54), (55+57), (58+59+60), (62+63+64), (65+67+69)		
Lead (Pb)	ND	10	90

Element	Result (mg/kg)	Detection Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(6), (22+23+24), (25+26+27), (28+29+30), (31+32+33), (34+35+36), (37+38+39), (40+41), (42+43), (44+45)		
Lead (Pb)	ND	10	100

The above limit was quoted from the Consent Judgment No. RG-356892 settled by superior court of the State of California for the county of Alameda, for Toys based on the California Proposition 65.

ND = Not detected (less than detection limit)

Tested Component(s): See component list in the last section of this report

14 Phthalate Content (California Proposition 65 – Toys)

With reference to CPSC-CH-C1001-09.4 and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test item	Result (%)	Detection Limit (%)	Limit (%)
	Tested component		
	(6), (22+23+24), (25+26+27), (28+29+30), (31+32+33), (34+35+36), (37+38+39), (40+41), (42+43), (46+47+48), (49+50+51), (52+53+54), (55+57), (58+59+60), (62+63+64), (65+67+69)		
Dibutyl phthalate (DBP)	ND	0.01	0.1
Di-(2-ethyl hexyl) phthalate (DEHP)	ND	0.01	0.1
Benzyl butyl phthalate (BBP)	ND	0.01	0.1
Di-iso-decyl phthalate (DIDP)	ND	0.01	0.1
Di-n-hexyl phthalate (DnHP)	ND	0.01	0.1

The above limit was quoted from the Consent Judgment No. BG-350969 settled by superior court of the state of California for the county of Alameda, for Toys based on the California Proposition 65.

ND = Not detected (less than detection limit)

Tested Component(s): See component list in the last section of this report



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Tests Conducted

15 Di-iso-nonyl phthalate (DINP) Content (California Proposition 65)

With reference to CPSC-CH-C1001-09.4 and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test item	Result (%)	Reporting limit (%)	Limit (%)
	Tested component		
	(6), (22+23+24), (25+26+27), (28+29+30), (31+32+33), (34+35+36), (37+38+39), (40+41), (42+43), (46+47+48), (49+50+51), (52+53+54), (55+57), (58+59+60), (62+63+64), (65+67+69)		
Di-iso-nonyl phthalate (DINP)	ND	0.01	--

ND = Not detected (less than reporting limit)

Tested Component(s): See component list in the last section of this report

16 Phthalate Content (U.S. ASTM F963-23 Section 4.3.8)

As per Section 4.3.8 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-23, test method CPSC-CH-C1001-09.4 was used and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test item	CAS No.	Result (%)	Detection limit (%)	Limit (%)
		Tested component		
		(6), (22+23+24), (25+26+27), (28+29+30), (31+32+33), (34+35+36), (37+38+39), (40+41), (42+43), (46+47+48), (49+50+51), (52+53+54), (55+57), (58+59+60), (62+63+64), (65+67+69)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.01	0.1
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.01	0.1
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.01	0.1
Di-iso-nonyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	0.01	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.01	0.1
Di-n-pentyl Phthalate (DPENP)	131-18-0	ND	0.01	0.1
Di-n-hexyl Phthalate (DHEXP)	84-75-3	ND	0.01	0.1
Dicyclohexyl Phthalate (DCHP)	84-61-7	ND	0.01	0.1

ND = Not detected (less than detection limit)

Tested Components: See component list in the last section of this report



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17 Phthalate Content (U.S. CPSIA Section 108(a) & (b)(3) and U.S. 16 CFR Part 1307)

As per CPSC-CH-C1001-09.4, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

<u>Test item</u>	<u>CAS No.</u>	<u>Result (%)</u>	<u>Detection limit (%)</u>	<u>Limit (%)</u>
		<u>Tested component</u> (6), (22+23+24), (25+26+27), (28+29+30), (31+32+33), (34+35+36), (37+38+39), (40+41), (42+43), (46+47+48), (49+50+51), (52+53+54), (55+57), (58+59+60), (62+63+64), (65+67+69)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.01	0.1
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.01	0.1
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.01	0.1
Di-iso-nonyl phthalate (DINP)	28553-12-0/ 68515-48-0	ND	0.01	0.1
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.01	0.1
Di-n-pentyl Phthalate (DPENP)	131-18-0	ND	0.01	0.1
Di-n-hexyl Phthalate (DHEXP)	84-75-3	ND	0.01	0.1
Dicyclohexyl Phthalate (DCHP)	84-61-7	ND	0.01	0.1

The above limit was quoted according to U.S. Consumer Product Safety Improvement Act 2008 Title I, Sec 108(a) & (b)(3) and U.S. 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates.

ND = Not detected(less than detection limit)

Tested Components: See component list in the last section of this report



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Tests Conducted

18 Phthalate Content (U.S. California AB 1108)

With reference to CPSC-CH-C1001-09.3, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

For 3 phthalate

<u>Test item</u>	<u>CAS No.</u>	Result (%)	<u>Reporting Limit (%)</u>	<u>Limit (%)</u>
		Tested component		
		(6), (22+23+24), (25+26+27), (28+29+30), (31+32+33), (34+35+36), (37+38+39), (40+41), (42+43), (46+47+48), (49+50+51), (52+53+54), (55+57), (58+59+60), (62+63+64), (65+67+69), (83+84+85), (86+87)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.01	0.1
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.01	0.1
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.01	0.1

The above limit was quoted according to U.S. California Health and Safety Code, Part 3 of Division 104, Chapter 11 Phthalates in Products for Young Children (AB 1108) on Phthalate content in toy or child care article.

Tested Component(s): See component list in the last section of this report



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Tests Conducted

19 Physical and Mechanical Tests

As per Canada Consumer Product Safety Act Toys Regulations SOR/2011-17:

The submitted samples were undergone the use and abuse tests in accordance with the Canada Consumer Product Safety Act Toys Regulations SOR/2011-17:	
<u>Test</u>	<u>Parameter</u>
Drop test	4 X 0.914 m
Pull test	44.5 N
Push test	44.5 N

No.	Testing Items	Assessment
3	General - English and French bilingual statement	NA
	Packaging	
4	(a) The opening perimeter is less than 14 inches	NA
	(b) The opening perimeter is more than 14 inches	NA
	Electrical hazard	
5	Electrically operated toys	NA
6	Electrically heated toys	NA
	Mechanical hazard	
7	Small parts	NA
8	Metal edges	P
9	Wire frames	P
10	Plastic edges	P
11	Wooden surfaces, edges and corners	NA
12	Glass	NA
13	Fasteners	P
14	Folding mechanism, bracket or bracing	NA
15	Spring-wound driving mechanisms	P
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 that is intended to bear the weight of a child	NA
	Auditory hazards	
19	Noise limit	NA
	Thermal hazards	
20	Heated surfaces, parts or substances	NA
	Dolls, plush toys and soft toys	
28	Fastenings to attach parts, clothing or ornamentation	NA
	Stuffing materials	
29	(a) Clean and free from vermin	NA
	(b) Free from hard and sharp foreign matter	NA
30	Small parts -Squeaker, reed, valve or other similar device	NA
31	Eyes and noses	NA



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Tests Conducted

No.	Testing Items	Assessment
	Plant seeds	
35	Plant seeds for making noise	NA
36	Plant seeds for stuffing material	NA
37	Pull and push toys that has a shaft-like handle	NA
38	Toy steam engines boilers	NA
40	Rattle	NA
41	Elastics	NA
	Yo-yo type balls	
42	(a) Stretchable cords	NA
	(b) Similar product	NA
43	Magnetic force	NA
44	(1) Exceptions of 44 (1)(a)	NA
	Exceptions of 44 (1)(b)	NA
	(2) Warning – Container and instructions or use for 44 (1)(b)	NA

Remark: P = Pass NA = Not Applicable

20 Cellulose Nitrate and Celluloid

Test Standard: As per Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 Section 21

Cellulose Nitrate/Celluloid	<u>Assessment</u> Absent	<u>Requirement</u> Absent
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Tests Conducted

21 Toxic Elements Analysis (CCPSA SOR/2011-17 and Amendment SOR/2022-122)

With reference to Method C-02.2.1, C-07 published in Health Canada Product safety reference manual Book 5 - Laboratory Policies and Procedures Part B: Test Methods Section, acid digestion method was used and toxic elements content were determined by Inductively Coupled Plasma-mass Spectrometry.

Element	Result	Detection Limit (mg/kg)	Limit (mg/kg)
	Tested component		
	(46+47+48), (49+50+51), (52+53+54), (55+57), (58+59+60), (62+63+64), (65+67+69)		
Tot. Lead (Pb)	ND	10	90
Tot. Mercury (Hg)	ND	0.047	10

With reference to Section 8.3.2 to 8.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-23, extraction method was used and toxic elements content were determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result	Detection Limit (mg/kg)	Limit (mg/kg)
	Tested component		
	(7), (8), (9), (11), (12), (13), (16)to(21)		
Sol. Cadmium (Cd)	ND	5	1000
Sol. Antimony (Sb)	ND	5	1000
Sol. Selenium (Se)	ND	5	1000
Sol. Arsenic (As)	ND	2.5	1000
Sol. Barium (Ba)	ND	5	1000

The above limit was quoted according to Canada Consumer Product Safety Act Toys Regulations SOR/2011-17 and Amendment SOR/2022-122 Section 23 for prohibition on toxic elements in stickers, films and surface coating materials.

Tot. = Total

Sol. = Soluble

ND = Not detected (less than detection limit)

Tested Component(s): See component list in the last section of this report



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Tests Conducted

22 Total Lead (Pb) content (CCPSA SOR/2018-83)

As per Method C-02.2.2(effective 2020-01-23), C-02.3.2(effective 2021-02-22), C-02.4.1(effective 2019-03-15), published in Health Canada Product safety reference manual Book 5 - Laboratory Policies and Procedures Part B: Test Methods Section, acid digestion was used and Total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (mg/kg)	Detection Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(46+47+48), (49+50+51), (52+53+54), (55+57), (58+59+60), (62+63+64), (65+67+69), (6), (22+23+24), (25+26+27), (28+29+30), (31+32+33), (34+35+36), (37+38+39), (40+41), (42+43), (44+45)		
Lead (Pb)	ND	10	90

The above limit was quoted according to Canada Consumer Products Containing Lead Regulations SOR/2018-83.

ND = Not detected (less than detection limit)

Tested Components: See component list in the last section of this report



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Tests Conducted

23 Phthalate Content (CCPSA SOR/2016-188)

As per Method CPSC-CH-C1001-09.3 and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

For 3 phthalate

Test Item	CAS No.	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
		Tested Component		
		(83+84+85), (86+87)		
Dibutyl phthalate (DBP)	84-74-2	ND	100	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	100	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	100	1000

For 6 phthalate

Test Item	CAS No.	Result (mg/kg)	Reporting Limit (mg/kg)	Limit (mg/kg)
		Tested Component		
		(6), (22+23+24), (25+26+27), (28+29+30), (31+32+33), (34+35+36), (37+38+39), (40+41), (42+43), (46+47+48), (49+50+51), (52+53+54), (55+57), (58+59+60), (62+63+64), (65+67+69)		
Dibutyl phthalate (DBP)	84-74-2	ND	100	1000
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	100	1000
Benzyl butyl phthalate (BBP)	85-68-7	ND	100	1000
Di-iso-nonyl phthalate (DINP)	28553-12-0	ND	100	1000
Di-n-octyl phthalate (DNOP)	117-84-0	ND	100	1000
Di-iso-decyl phthalate (DIDP)	26761-40-0	ND	100	1000

The above limit was quoted according to Canada Consumer Product Safety Act Phthalates Regulations SOR/2016-188 for phthalate content on toys and child care articles.

ND = Not detected (less than reporting limit)

Tested component(s): See component list in the last section of this report



Test Report

Number: GZHH00652962

Tests Conducted

24 Mechanical and Physical Test

Test standard: European Standard on Safety of toys EN 71-1: 2026.

The submitted samples were undergone the following abuse tests:		
Test	Clause	Parameter
Drop test	8.5	(850±50) mm x 5times
Impact test	8.7	(1±0.02) kg

Clause	Requirement	Result
4	General requirements	
4.1	Material cleanliness	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
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	P
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	Projectile toys	NA
4.18	Aquatic toys and inflatable toys	NA
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 balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
4.28	Food-imitating toys	NA
5	Toys intended for children under 36 months	



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Tests Conducted

Clause	Requirement	Result
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, 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	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
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	P/#
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	Toys intended to be strung across a cradle, cot, or perambulator	NA
7.11	Liquid-filled teethingers	NA
7.12	Percussion caps specifically designed for use in toys	NA
7.13	Acoustics	NA
7.14	Toys intended to bear the mass of a child	NA
7.15	Toys comprised of monofilament fibres	NA
7.16	Magnetic/electrical experimental sets	NA
7.17	Toys with electrical cables exceeding 300 mm in length	NA



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Tests Conducted

Clause	Requirement	Result
7.18	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.19	Toys intended to be attached to a cradle, cot or perambulator	NA
7.20	Sledges with cords for pulling	NA
7.21	Flying toys	NA
7.22	Improvised projectiles	NA

Abbreviation: P = Pass NA = Not Applicable

Note: According to 2009/48/EC, warnings and safety instructions shall be written in a language or languages easily understood by consumers.

#= Age warning statement and indication of hazard was found on the packaging.

Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN 71 but are not standard requirements:

1. Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

	Product	Packaging
Manufacturer's name	Present	Present
Manufacturer's address	Absent	Present
Importer's name	Absent	Absent
Importer's address	Absent	Absent
Product identification code	Absent	Present
CE-marking	Absent	Present



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Tests Conducted

25 Physical and Mechanical Tests

As per European Standard on Safety of toys EN71-1:2014+A1:2018

The submitted samples were undergone the following abuse tests:

<u>Test</u>	<u>Clause</u>	<u>Parameter</u>
Drop test	8.5	850 mm x 5 times
Impact test	8.7	1 kg

<u>Clause</u>	<u>Testing Items</u>	<u>Assessment</u>
4	General requirements	
4.1	Material	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
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	P
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	Projectile toys	NA
4.18	Aquatic toys and inflatable toys	NA
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
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	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA



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Tests Conducted

Clause	Testing Items	Assessment
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	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
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	P/#
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, inlineskates and skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to 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
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



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Tests Conducted

Remark: P = Pass NA = Not Applicable

Note: According to 2009/48/EC, warnings and safety instructions shall be written in a language or languages easily understood by consumers.

= Age warning statement and indication of hazard was found on the packaging.

Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements and not accredited:

1. Marking The manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

	Toy	Packaging
Manufacturer's name	Present	Present
Manufacturer's address	Absent	Present
Importer's name	Absent	Absent
Importer's address	Absent	Absent
Product identification code	Absent	Present
CE-marking	Absent	Present



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Tests Conducted

26 Flammability Test

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

Clause	Testing Items	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

Remark: P = Pass NA = Not Applicable

27 Flammability Test

Test Standard: European Standard on Safety of Toys EN 71 - 2: 2020+A1:2025.

Clause	Testing Items	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

Remark: P = Pass NA = Not Applicable



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Tests Conducted

28 Mechanical and Physical Test

Test standard: British Standard on Safety of toys BS EN 71-1: 2026.

The submitted samples were undergone the following abuse tests:		
Test	Clause	Parameter
Drop test	8.5	(850±50) mm x 5times
Impact test	8.7	(1±0.02) kg

Clause	Requirement	Result
4	General requirements	
4.1	Material cleanliness	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
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	P
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	Projectile toys	NA
4.18	Aquatic toys and inflatable toys	NA
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 balls	NA
4.25	Toys attached to food	NA
4.26	Toy disguise costumes	NA
4.27	Flying toys	NA
4.28	Food-imitating toys	NA
5	Toys intended for children under 36 months	
5.1	General requirements	NA



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Tests Conducted

Clause	Requirement	Result
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	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
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	P/#
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	Toys intended to be strung across a cradle, cot, or perambulator	NA
7.11	Liquid-filled teethingers	NA
7.12	Percussion caps specifically designed for use in toys	NA
7.13	Acoustics	NA
7.14	Toys intended to bear the mass of a child	NA
7.15	Toys comprised of monofilament fibres	NA
7.16	Magnetic/electrical experimental sets	NA
7.17	Toys with electrical cables exceeding 300 mm in length	NA
7.18	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.19	Toys intended to be attached to a cradle, cot or perambulator	NA
7.20	Sledges with cords for pulling	NA
7.21	Flying toys	NA
7.22	Improvised projectiles	NA



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Tests Conducted

Abbreviation: P = Pass NA = Not Applicable

#=Age warning statement and indication of hazard was found on the packaging.

Below is additional information checking according to the UK Toy (Safety) Regulations requirement.

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

	Product	Packaging
Manufacturer's name	Present	Present
Manufacturer's address	Absent	Present
Name of authorised representative in Great Britain	Absent	Absent
Address of authorised representative in Great Britain	Absent	Absent
Product identification code	Absent	Present

With reference to the guidance of using UKCA marking from 1 January 2021 by the Department for Business, Energy and Industrial Strategy.

After checking UKCA marking, it was found that

	Product	Packaging
UKCA marking	Absent	Present



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Tests Conducted

29 Physical and Mechanical Tests

As per British Standard on Safety of toys BS EN71-1:2014+A1:2018

The submitted samples were undergone the following abuse tests:		
Test	Clause	Parameter
Drop test	8.5	850 mm x 5 times
Impact test	8.7	1 kg

Clause	Testing Items	Assessment
4	General requirements	
4.1	Material	P
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
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	P
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	Projectile toys	NA
4.18	Aquatic toys and inflatable toys	NA
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
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	NA
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



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Tests Conducted

Clause	Testing Items	Assessment
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	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
7	Warnings, markings and instructions for use	
7.1	General	P
7.2	Toys not intended for children under 36 months	P/#
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, inlineskates and skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to 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
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

Remark: P = Pass NA = Not Applicable

= Age warning statement and indication of hazard was found on the packaging.



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Tests Conducted

Below is additional information checking according to the UK Toy (Safety) Regulations requirement.

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
Manufacturer's name	Present	Present
Manufacturer's address	Absent	Present
Name of authorised representative in Great Britain	Absent	Absent
Address of authorised representative in Great Britain	Absent	Absent
Product identification code	Absent	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.

After checking UKCA marking, it was found that

	Toy	Packaging
UKCA marking	Absent	Present



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Tests Conducted

30 Flammability Test

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

Clause	Testing Items	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

Remark: P = Pass NA = Not Applicable

31 Flammability Test

Test Standard: British Standard on Safety of Toys BS EN 71 - 2: 2020+A1:2025.

Clause	Testing Items	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

Remark: P = Pass NA = Not Applicable



Test Report

Number: GZHH00652962

Tests Conducted

32 EN 71-3:2019+A2:2024 on Migration of Certain Elements

(A) Test Result

With reference to EN 71-3:2019+A2:2024 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Ion Chromatography with UV-VIS.

Category (III): Scraped-off toy material

Element	Result (mg/kg)			Detection Limit (mg/kg)	Limit (mg/kg)
	Tested Component				
	(6)	(11)	(20)		
Aluminium (Al)	377	982	886	300	28130
Antimony (Sb)	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	5	17
Chromium (III) (Cr(III)) #	ND	ND	ND	10	460
Chromium (VI) (Cr(VI))	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	2.5	180000
Organic tin **	ND	ND	ND	5	12
Zinc (Zn)	ND	ND	ND	100	46000



Test Report

Number: GZHH00652962

Tests Conducted

Element	Result (mg/kg)	Detection Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(7), (8), (9), (12), (13), (16)to(19), (21)to(43)		
Aluminium (Al)	ND	300	28130
Antimony (Sb)	ND	10	560
Arsenic (As)	ND	10	47
Barium (Ba)	ND	10	18750
Boron (B)	ND	50	15000
Cadmium (Cd)	ND	5	17
Chromium (III) (Cr(III)) #	ND	10	460
Chromium (VI) (Cr(VI))	ND	0.025	0.053
Cobalt (Co)	ND	10	130
Copper (Cu)	ND	10	7700
Lead (Pb)	ND	10	23
Manganese (Mn)	ND	10	15000
Mercury (Hg)	ND	10	94
Nickel (Ni)	ND	10	930
Selenium (Se)	ND	10	460
Strontium (Sr)	ND	100	56000
Tin (Sn)	ND	2.5	180000
Organic tin **	ND	5	12
Zinc (Zn)	ND	100	46000

Remark : mg/kg = milligram per kilogram
 ++ = Unless the test results were marked with "Δ", organic tin contents were not directly determined and were derived from migration results of total tin.
 - Organic tin test result was expressed as tributyl tin.
 ND = Not detected (less than detection limit)
 # = The reported value of migration of chromium (III) = migration value of total chromium – migration value of chromium (VI).

Tested component(s): See component list in the last section of this report



Test Report

Number: GZHH00652962

Tests Conducted

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).

Note: CEN/TS 17973:2023, Safety of toys - Categorization of slime type materials, specifies a method for categorization of slime-type products to support users of EN 71-3 in the categorization of products with slime-like behaviour into material categories I (dry, brittle, powder-like or pliable toy material) or II (liquid or sticky toy material).



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Test Report

Number: GZHH00652962

Tests Conducted

33 BS EN 71-3:2019+A2:2024 on Migration of Certain Elements

(A) Test Result

With reference to BS EN 71-3:2019+A2:2024 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Ion Chromatography with UV-VIS

Category (III): Scraped-off toy material

Element	Result (mg/kg)			Detection Limit (mg/kg)	Limit (mg/kg)
	Tested Component				
	(6)	(11)	(20)		
Aluminium (Al)	377	982	886	300	28130
Antimony (Sb)	ND	ND	ND	10	560
Arsenic (As)	ND	ND	ND	10	47
Barium (Ba)	ND	ND	ND	10	18750
Boron (B)	ND	ND	ND	50	15000
Cadmium (Cd)	ND	ND	ND	5	17
Chromium (III) (Cr(III)) #	ND	ND	ND	10	460
Chromium (VI) (Cr(VI))	ND	ND	ND	0.025	0.053
Cobalt (Co)	ND	ND	ND	10	130
Copper (Cu)	ND	ND	ND	10	7700
Lead (Pb)	ND	ND	ND	10	23
Manganese (Mn)	ND	ND	ND	10	15000
Mercury (Hg)	ND	ND	ND	10	94
Nickel (Ni)	ND	ND	ND	10	930
Selenium (Se)	ND	ND	ND	10	460
Strontium (Sr)	ND	ND	ND	100	56000
Tin (Sn)	ND	ND	ND	2.5	180000
Organic tin **	ND	ND	ND	5	12
Zinc (Zn)	ND	ND	ND	100	46000



Test Report

Number: GZHH00652962

Tests Conducted

Element	Result (mg/kg)	Detection Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(7), (8), (9), (12), (13), (16)to(19), (21)to(43)		
Aluminium (Al)	ND	300	28130
Antimony (Sb)	ND	10	560
Arsenic (As)	ND	10	47
Barium (Ba)	ND	10	18750
Boron (B)	ND	50	15000
Cadmium (Cd)	ND	5	17
Chromium (III) (Cr(III)) #	ND	10	460
Chromium (VI) (Cr(VI))	ND	0.025	0.053
Cobalt (Co)	ND	10	130
Copper (Cu)	ND	10	7700
Lead (Pb)	ND	10	23
Manganese (Mn)	ND	10	15000
Mercury (Hg)	ND	10	94
Nickel (Ni)	ND	10	930
Selenium (Se)	ND	10	460
Strontium (Sr)	ND	100	56000
Tin (Sn)	ND	2.5	180000
Organic tin **	ND	5	12
Zinc (Zn)	ND	100	46000

Remark : mg/kg = milligram per kilogram

++ = Unless the test results were marked with "Δ", organic tin contents were not directly determined and were derived from migration results of total tin.

- Organic tin test result was expressed as tributyl tin.

ND = Not detected (less than detection limit)

= The reported value of migration of chromium (III) = migration value of total chromium – migration value of chromium (VI).

Tested component(s): See component list in the last section of this report



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Number: GZHH00652962

Tests Conducted

(B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).

Note: CEN/TS 17973:2023, Safety of toys - Categorization of slime type materials, specifies a method for categorization of slime-type products to support users of EN 71-3 in the categorization of products with slime-like behaviour into material categories I (dry, brittle, powder-like or pliable toy material) or II (liquid or sticky toy material).



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Test Report

Number: GZHH00652962

Tests Conducted

34 EU REACH Regulation (EC) No 1907/2006 and its Amendment(s) including (EU) 2016/217 Annex XVII Entry 23 on Cadmium (Cd) Content

With reference to IEC 62321-5:2013, acid digestion method was used and followed by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (%)	Detection Limit (%)
	Tested Component	
	(22+23+24), (25+26+27), (28+29+30), (31+32+33), (34+35+36), (37+38+39), (40+41), (42+43), (46+47+48), (49+50+51), (52+53+54), (55+57), (58+59+60), (62+63+64), (65+67+69), (83+84+85), (86+87), (6)	
	(6)	
Cadmium (Cd)	ND	0.0005

Limit:

Category	Limit (%)
Wet paint	0.01
Surface coating	0.1
Plastic	0.01
Metal parts of jewellery and hair accessories	0.01

The limit was quoted according to EU REACH Regulation (EC) No 1907/2006 and its Amendment(s) including (EU) 2016/217 Annex XVII Entry 23 on Cadmium (Cd) Content.

ND = Not detected (less than detection limit)

Tested component(s): See component list in the last section of this report

35 Organotin Content Screening

By acid digestion and determined by Inductively Coupled Argon Plasma Spectrometry.

Test Item	Result (%)	Detection Limit (%)	Limit (%)
	Tested Component		
	(6), (31+32+33), (34+35+36), (37+38+39), (40+41), (42+43), (74+75+76), (77+78+79), (80+81+82), (83+84+85), (86+87)		
	(6)		
Tin (Sn)	ND	0.005	0.1

The limit was quoted according to Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) and Amendment (EC) No 552/2009 and (EU) No 276/2010, Annex XVII Entry 20 on Organotin Content.

ND = Not detected (less than detection limit)

Tested components: See component list in the last section of this report



Test Report

Number: GZHH00652962

Tests Conducted

- 36 EU REACH Regulation (EC) No 1907/2006 and its Amendment(s) including (EU) 2018/2005 Annex XVII Entries 51 and 52 on Phthalates Content

With reference to ISO 8124-6:2023, followed by Gas Chromatographic-Mass Spectrometric (GC-MS).

For 4 phthalates:

Test Item	CAS No.	Result (%)	Detection Limit (%)	Limit (%)
		Tested Component (83+84+85), (86+87)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.005	--
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.005	--
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.005	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.005	--
Sum of DBP, DEHP, BBP and DIBP	--	ND	--	0.1

For 7 phthalates:

Test Item	CAS No.	Result (%)	Detection Limit (%)	Limit (%)
		Tested Component (6), (22+23+24), (25+26+27), (28+29+30), (31+32+33), (34+35+36), (37+38+39), (40+41), (42+43), (46+47+48), (49+50+51), (52+53+54), (55+57), (58+59+60), (62+63+64), (65+67+69)		
Dibutyl phthalate (DBP)	84-74-2	ND	0.005	--
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	0.005	--
Benzyl butyl phthalate (BBP)	85-68-7	ND	0.005	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	0.005	--
Sum of DBP, DEHP, BBP and DIBP	--	ND	--	0.1
Di-iso-nonyl phthalate (DINP)	28553-12-0	ND	0.005	--
Di-n-octyl phthalate(DNOP)	117-84-0	ND	0.005	--
Di-iso-decyl phthalate (DIDP)	26761-40-0	ND	0.005	--
Sum of DINP, DNOP and DIDP	--	ND	--	0.1

The limit was quoted according to EU REACH Regulation (EC) No 1907/2006 and its Amendment(s) including (EU) 2018/2005 Annex XVII Entries 51 and 52 on Phthalates Content.

ND = Not detected (less than detection limit)

Tested component(s): See component list in the last section of this report



Test Report

Number: GZHH00652962

Tests Conducted

- 37 EU REACH Regulation (EC) No 1907/2006 and its Amendment(s) including (EU) No 1272/2013 Annex XVII Entry 50 on Polycyclic Aromatic Hydrocarbons (PAHs) Content

With reference to AfPS GS 2019:01 PAK and followed by Gas Chromatography-Mass Spectrometry (GC-MS).

For toys and childcare articles, whose rubber or plastic components come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity:

Test Item	CAS No.	Result (mg/kg)	Detection Limit (mg/kg)	Limit (mg/kg)
		Tested Component		
		(6), (17), (22+23), (24+25), (26+27), (28+29), (30+31), (32+33), (34+35), (36+37), (38+39), (40+41), (42+43)		
Benzo[a]anthracene	56-55-3	ND	0.2	0.5
Chrysene	218-01-9	ND	0.2	0.5
Benzo[b]fluoranthene	205-99-2	ND	0.2	0.5
Benzo[k]fluoranthene	207-08-9	ND	0.2	0.5
Benzo[a]pyrene	50-32-8	ND	0.2	0.5
Dibenzo[a,h]anthracene	53-70-3	ND	0.2	0.5
Benzo[j]fluoranthene	205-82-3	ND	0.2	0.5
Benzo[e]pyrene	192-97-2	ND	0.2	0.5

The limit was quoted according to EU REACH Regulation (EC) No 1907/2006 and its Amendment(s) including (EU) No 1272/2013 Annex XVII Entry 50 on Polycyclic Aromatic Hydrocarbons (PAHs) Content.

ND = Not detected (less than detection limit)

Tested component(s): See component list in the last section of this report



Test Report

Number: GZHH00652962

Tests Conducted

38 Physical and Mechanical Tests

Test standard: International Standard ISO 8124-1: 2022 - Safety aspects related to mechanical and physical properties.

The submitted samples were undergone the normal use and the following reasonable foreseeable abuse tests in accordance with the Clause 5.24 of ISO 8124-1:2022 before the assessment of the relevant requirement in Clause 4 :

Test	Test	Parameter
5.24.2	Drop test	4 x 93 ± 5cm
5.24.5	Torque test	0.45 ± 0.02Nm
5.24.6	Tension test	70 ± 2N
5.24.7	Compression test	136 ± 2N

Section	Testing Items	Assessment
4.1.1	Normal use	P
4.1.2	Location of warning	P
4.2	Reasonably foreseeable abuse	P
4.3.1	Material	P
4.3.2	Expanding materials	NA
4.4.1	Small parts	NA
4.4.2	Small parts warning	P
4.5	Shape, size and strength of certain toys	NA
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	NA
4.11	Cords	NA
4.12	Folding mechanisms	NA
4.13	Holes, clearances and accessibility of mechanisms	P
4.14	Springs	NA
4.15	Stability and overload requirements	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
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



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Tests Conducted

Section	Testing Items	Assessment
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	Magnet 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

Remark : P = Pass NA = Not Applicable

Safety labelling and manufacturing marking should be in the language of the country in which the toys will be distributed.

39 Flammability test

Test Standard: International Standard on Safety of Toys ISO 8124-2: 2023.

Section	Testing Items	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 play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft-filled toys	NA

Remark : P = Pass NA = Not Applicable



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Test Report

Number: GZHH00652962

Tests Conducted

40 Toxic Elements Analysis (Any Toy Material Except Modelling Clay and Putty, Finger Paint and Slime)

With reference to ISO 8124-3:2020+Amd.1:2023, acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma - Optical Emission Spectrometry.

Element	Result (mg/kg)	Detection Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(6), (7), (8), (9), (11), (12), (13), (16)to(43)		
Sol. Barium (Ba)	ND	5	1000
Sol. Lead (Pb)	ND	5	90
Sol. Cadmium (Cd)	ND	5	75
Sol. Antimony (Sb)	ND	5	60
Sol. Selenium (Se)	ND	5	500
Sol. Chromium (Cr)	ND	5	60
Sol. Mercury (Hg)	ND	5	60
Sol. Arsenic (As)	ND	2.5	25

ND = Not detected (less than detection limit)

Sol. = Soluble

Tested components: See component list in the last section of this report



Test Report

Number: GZHH00652962

Tests Conducted

41 Physical and Mechanical Tests

Test Standard: Australian / New Zealand Standard AS/NZS ISO 8124.1: 2023 Safety aspects related to mechanical and physical properties.

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	4 x 93 ± 5cm
5.24.5	Torque test	0.45 ± 0.02Nm
5.24.6	Tension test	70 ± 2N
5.24.7	Compression test	136 ± 2N

Section	Testing Items	Assessment
4.1.1	Normal use	P
4.1.2	Location of warning	P
4.2	Reasonably foreseeable abuse	P
4.3.1	Material quality	P
4.3.2	Expanding materials	NA
4.4.1	Small parts	NA
4.4.2	Small part warning	P
4.5	Shape, size and strength of certain toys	NA
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	NA
4.11	Cords	NA
4.12	Folding mechanisms	NA
4.13	Holes, clearances and accessibility of mechanisms	P
4.14	Springs	NA
4.15	Stability and overload requirements	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
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



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Tests Conducted

Section	Testing Items	Assessment
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	Magnet 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

Remark : P = Pass NA = Not Applicable

42 Flammability test

Test Standard: Australian / New Zealand Standard on Safety of Toys AS/NZS ISO 8124.2:2023.

Section	Testing Items	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	NA

Abbreviation: P = Pass NA = Not Applicable



Test Report

Number: GZHH00652962

Tests Conducted

43 AS/NZS ISO 8124.3:2021+Amd 1:2023 on Migration of Certain Elements from Any Toy Materials Except Modelling Clays and Putties, Finger Paints and Slimes

With reference to AS/NZS ISO 8124.3:2021+Amd 1:2023, acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma - Optical Emission Spectrometry.

Element	Result (mg/kg)	Detection Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(6), (7), (8), (9), (11), (12), (13), (16)to(43)		
Sol. Barium (Ba)	ND	5	1000
Sol. Lead (Pb)	ND	5	90
Sol. Cadmium (Cd)	ND	5	75
Sol. Antimony (Sb)	ND	5	60
Sol. Selenium (Se)	ND	5	500
Sol. Chromium (Cr)	ND	5	60
Sol. Mercury (Hg)	ND	5	60
Sol. Arsenic (As)	ND	2.5	25

ND = Not detected (less than detection limit)
Sol. = Soluble

Tested components: See component list in the last section of this report

44 Toxic Elements Analysis (General) (Australia Consumer Protection Notice No. 1 of 2009)

With reference to AS/NZS ISO 8124.3:2003, acid extraction method was used and toxic elements content were determined by Inductively Coupled Plasma - Optical Emission Spectrometry (ICP-OES).

Element	Result (mg/kg)	Detection Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(6), (7), (8), (9), (11), (12), (13), (16)to(43)		
Sol. Barium (Ba)	ND	5	1000
Sol. Lead (Pb)	ND	5	90
Sol. Cadmium (Cd)	ND	5	75
Sol. Antimony (Sb)	ND	5	60
Sol. Selenium (Se)	ND	5	500
Sol. Chromium (Cr)	ND	5	60
Sol. Mercury (Hg)	ND	5	60
Sol. Arsenic (As)	ND	2.5	25

Sol. = Soluble
ND = Not detected (less than detection limit)

Tested component(s): See component list in the last section of this report



Test Report

Number: GZHH00652962

Tests Conducted

45 Total Lead (Pb) Content (CCPSA SOR/2016-193 and Amendment SOR/2022-122)

As per Method C-02.2.2 (effective 2020-01-23) published in Health Canada Product safety reference manual Book 5 - Laboratory Policies and Procedures Part B: Test Methods Section, acid digestion method was used and determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (mg/kg)	Detection Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(46+47+48), (49+50+51), (52+53+54), (55+57), (58+59+60), (62+63+64), (65+67+69)		
Lead (Pb)	ND	10	90

The above limit was quoted according to Canada Consumer Product Safety Act Surface Coating Materials Regulations SOR/2016-193 and Amendment SOR/2022-122 for prohibition on Lead in stickers, films or surface coating materials.

ND = Not detected (less than detection limit)

Tested component(s): See component list in the last section of this report



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Number: GZHH00652962

Tests Conducted

46 Ortho-Phthalates Content (U.S. Toxics in Packaging Clearinghouse TPCH)

With reference to CPSC-CH-C1001-09.4 and followed by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

Test Item	CAS No.	Result (ppm)	Detection Limit (ppm)	Limit (ppm)
		Tested Component		
		(1)to(5)		
Di-(2-ethyl hexyl) phthalate (DEHP)	117-81-7	ND	100	--
Benzyl butyl phthalate (BBP)	85-68-7	ND	100	--
Dicyclohexyl Phthalate (DCHP)	84-61-7	ND	100	--
Diethyl phthalate (DEP)	84-66-2	ND	100	--
Diisobutyl phthalate (DIBP)	84-69-5	ND	100	--
Di-iso-decyl phthalate (DIDP)	26761-40-0	ND	100	--
Di-iso-nonyl phthalate (DINP)	28553-12-0	ND	100	--
Dimethyl phthalate (DMP)	131-11-3	ND	100	--
Dibutyl phthalate (DBP)	84-74-2	ND	100	--
Di-n-hexyl Phthalate (DHEXP)	84-75-3	ND	100	--
Di-n-octyl phthalate (DNOP)	117-84-0	ND	100	--
Di-n-pentyl Phthalate (DPENP)	131-18-0	ND	100	--
Sum of ortho-phthalates	--	ND	--	100

The limit was quoted according to Model Toxics in Packaging Legislation and Guidance Document on ortho-phthalates test (Toxics in Packaging Clearinghouse TPCH).

ppm=part per million=mg/kg

ND = Not detected (less than detection limit)

Tested component(s): See component list in the last section of this report



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Number: GZHH00652962

Tests Conducted

47 Toxic Elements Analysis (U.S. Toxics in Packaging Clearinghouse TPC)

As per Model Toxics in Packaging Legislation requirement of packaging and packaging components, acid digestion method was used and toxic elements contents were determined by Inductively Coupled Argon Plasma Spectrometry, and Hexavalent Chromium content was determined by UV-Visible Spectrophotometry.

Element	Result (ppm)	Detection Limit (ppm)	Limit (ppm)
	Tested component		
	(1+2), (3+4+5)		
Lead (Pb)	ND	5	--
Cadmium (Cd)	ND	5	--
Mercury (Hg)	ND	5	--
Chromium VI (Cr (VI))	ND	5	--
Sum of Pb, Cd, Hg and Cr (VI)	ND	--	100

ppm = parts per million = mg/kg

ND = Not detected (less than detection limit)

Remark: Only detected element(s) is / are included in calculation of the sum.

Tested components: See component list in the last section of this report

48 EU Packaging and Packaging Waste Regulation (EU) 2025/40 (PPWR) Article 5(4) on Heavy Metals Content

Alkaline digestion method was used and hexavalent chromium (Cr(VI)) was determined by UV-Visible Spectrophotometry. Acid digestion method was used and lead (Pb), cadmium (Cd) and mercury (Hg) were determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (mg/kg)	Detection Limit (mg/kg)	Limit (mg/kg)
	Tested Component		
	(1+2), (3+4+5)		
Lead (Pb)	ND	5	--
Cadmium (Cd)	ND	5	--
Mercury (Hg)	ND	5	--
Chromium VI (Cr(VI))	ND	5	--
Sum of Pb, Cd, Hg and Cr(VI)	ND	--	100

The limit was quoted according to EU Packaging and Packaging Waste Regulation (EU) 2025/40 (PPWR) Article 5(4) on Heavy Metals Content.

ND = Not detected (less than detection limit)

Remark: Only detected element(s) is / are included in calculation of the sum.

Tested components: See component list in the last section of this report



Test Report

Number: GZHH00652962

Tests Conducted

49 Toxic Elements Analysis

Alkaline digestion method was used and Hexavalent Chromium was determined by UV-Visible Spectrophotometry; Acid digestion method was used and Lead, Cadmium and Mercury were determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (ppm)	Detection Limit (ppm)	Limit (ppm)
	Tested Component		
	(1+2), (3+4+5)		
Lead (Pb)	ND	5	--
Cadmium (Cd)	ND	5	--
Mercury (Hg)	ND	5	--
Chromium VI (Cr (VI))	ND	5	--
Sum of Pb, Cd, Hg and Cr (VI)	ND	--	100

The limit was quoted according to EU Directive 94/62/EC and amendments on packaging and packaging waste, Article 11(1) on Heavy Metals Content.

ppm = part per million = mg/kg

ND = Not detected (less than detection limit)

Remark: Only detected element(s) is / are included in calculation of the sum.

Tested components: See component list in the last section of this report



Test Report

Number: GZHH00652962

Tests Conducted

Component list:

Sequence No.	Test Component No.	Test Component Description(s)
SN1	(1)	White paper card with transparent plastic film and inaccessible coatings & glue (color box) (packaging).
SN2	(2)	White paper sheet with black printing (warning sheet) (packaging).
SN3	(3)	12mm transparent sellotape (fastener of small color box) (packaging).
SN4	(4)	Transparent plastic (tray) (packaging).
SN5	(5)	Red sellotape (fastener of small color box) (packaging).
SN6	(6)	White paper with transparent plastic film and inaccessible coatings (card).
SN7	(7)	Multicolor coatings on plastic (book of #Henry the monster summoner).(sample weight: 23.1mg)
SN8	(8)	Coatings (green, black) on plastic (head, hands of small monsters of #Henry the monster summoner).(sample weight: 37.1mg)
SN9	(9)	Beige coating on plastic (body of small monsters of #Henry the monster summoner).(sample weight: 37.1mg)
SN10	(10)	@ Fuchsia coating on plastic (base of small monsters of #Henry the monster summoner).
SN11	(11)	Coatings (blue, white, dull silver color, black, yellow) on plastic (hair, eyes, clothing, glasses, hands of minions of #Henry the monster summoner, vidicon, glasses, hair of minions of #James the director, videotape, glasses, hair of minions of #Ed the production assistant).(sample weight: 44.1mg)
SN12	(12)	Coatings (dull white, wine red, coral pink) on plastic (mouth of minions of #Henry the monster summoner).(sample weight: 11.1mg)
SN13	(13)	Dull blue coating on plastic (frame of vidicon of #James the director).(sample weight: 29.2mg)
SN14	(14)	@ Coatings (blue, black) on plastic (eyes of minions of #James the director).
SN15	(15)	@ Coatings (dark brown, black) on plastic (eyes, hands, clothing, hair of minions of #Ed the production assistant).
SN16	(16)	Coatings (yellow, light coral pink, bright brown) on plastic (torch of #Dick the explorer).(sample weight: 30.1mg)
SN17	(17)	Coatings (light beige, fuchsia, black, light yellow) on plastic (mummy of #Dick the explorer).(sample weight: 78.1mg)
SN18	(18)	Coatings (dark blue, white) on plastic (pharaoh of #Dick the explorer).(sample weight: 17.1mg)
SN19	(19)	Flesh color coating on plastic (trousers of minions of #Dick the explorer).(sample weight: 32.1mg)
SN20	(20)	Coatings (dark brown, black, white, dull silver color) on plastic (eyes, hands, glasses, teeth of minions of #Dick the explorer).(sample weight:22.1 mg)
SN21	(21)	Light beige coating on plastic (hat of minions of #Dick the explorer).(sample weight: 39.2mg)
SN22	(22)	Light black plastic (cover of book of #Henry the monster summoner).
SN23	(23)	Semi-transparent white soft plastic excluding coatings (head, hands, body, base of small monsters of #Henry the monster summoner, torch of #Dick the explorer).
SN24	(24)	Yellow plastic (body of minions of all styles).
SN25	(25)	White plastic excluding coatings (eyes, glasses of minions of #Henry the monster summoner, #James the director, #Ed the production assistant, mummy, eyes, glasses of #Dick the explorer).



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Tests Conducted

Sequence No.	Test Component No.	Test Component Description(s)
SN26	(26)	Dark grey plastic (vidicon of minions of #James the director).
SN27	(27)	Matt white plastic (eyes of minions of #James the director, #Ed the production assistant).
SN28	(28)	Earthy yellow plastic (pharaoh of #Dick the explorer).
SN29	(29)	Dull off white plastic (hat of #Dick the explorer).
SN30	(30)	Bright off white plastic (clothing, trousers of #Dick the explorer).
SN31	(31)	Khaki plastic (base of #Henry the monster summoner).
SN32	(32)	Dull khaki plastic (button, stone of #Henry the monster summoner).
SN33	(33)	Light grey plastic (insert pages, buckle of book of #Henry the monster summoner).
SN34	(34)	Bright yellow plastic (hands of minions of all styles).
SN35	(35)	Blue plastic (clothing of minions of #Henry the monster summoner, #James the director, #Ed the production assistant).
SN36	(36)	Black plastic (feet, glasses of minions of all styles).
SN37	(37)	Light white plastic excluding coatings (hands of minions of #Henry the monster summoner, #James the director, #Ed the production assistant).
SN38	(38)	Light brown soft plastic (belt of #James the director).
SN39	(39)	Bright black plastic (wheel of #James the director).
SN40	(40)	Dark yellow plastic (clockwork spring of #James the director, #Ed the production assistant).
SN41	(41)	Dark brown soft plastic (videotape of #Ed the production assistant).
SN42	(42)	Off white plastic excluding coating (videotape of #Ed the production assistant).
SN43	(43)	Sand color plastic (base of #Dick the explorer).
SN44	(44)	Silver color metal (axle of lifting platform of small monsters of #Henry the monster summoner).
SN45	(45)	Silver color metal (screw of button of #Dick the explorer).
SN46	(46)	Orange coating on plastic (part used for book of #Henry the monster summoner).
SN47	(47)	Yellow coating on plastic (part used for book of #Henry the monster summoner, eyes of minions of #Henry the monster summoner, torch of #Dick the explorer).
SN48	(48)	Light yellow coating on plastic (part used for book of #Henry the monster summoner, mummy of #Dick the explorer).
SN49	(49)	Flesh color coating on plastic (part used for book of #Henry the monster summoner, trousers of minions of #Dick the explorer).
SN50	(50)	Green coating on plastic (part used for head, hands of small monsters of #Henry the monster summoner).
SN51	(51)	Black coating on plastic (part used for head of small monsters, book, hair, eyes, clothing, hands of minions of #Henry the monster summoner, vidicon, eyes, hair of minions of #James the director, eyes, hands, clothing, hair of minions of #Ed the production assistant, mummy, eyes, hands, teeth of minions of #Dick the explorer).
SN52	(52)	Beige coating on plastic (part used for body of small monsters of #Henry the monster summoner).
SN53	(53)	Blue coating on plastic (part used for eyes of minions of #Henry the monster summoner, eyes of minions of #James the director).
SN54	(54)	White coating on plastic (part used for eyes of minions of #Henry the monster summoner, eyes, teeth of minions, pharaoh of #Dick the explorer).
SN55	(55)	Dull silver color coating on plastic (part used for glasses of minions of #Henry the monster summoner, vidicon, glasses of minions of



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Tests Conducted

Sequence No.	Test Component No.	Test Component Description(s)
SN56	(57)	#James the director, videotape, glasses of minions of #Ed the production assistant, glasses of minions of #Dick the explorer). Dull white coating on plastic (part used for mouth of minions of #Henry the monster summoner).
SN57	(58)	Wine red coating on plastic (part used for mouth of minions of #Henry the monster summoner).
SN58	(59)	Coral pink coating on plastic (part used for mouth of minions of #Henry the monster summoner).
SN59	(60)	Dull blue coating on plastic (part used for frame of vidicon of #James the director).
SN60	(62)	Light coral pink coating on plastic (part used for torch of #Dick the explorer).
SN61	(63)	Bright brown coating on plastic (part used for torch of #Dick the explorer).
SN62	(64)	Light beige coating on plastic (part used for mummy of #Dick the explorer, hat of minions of #Dick the explorer).
SN63	(65)	Fuchsia coating on plastic (part used for mummy of #Dick the explorer, base of small monsters of #Henry the monster summoner).
SN64	(67)	Dark blue coating on plastic (part used for pharaoh of #Dick the explorer).
SN65	(69)	Dark brown coating on plastic (part used for eyes of minions of #Dick the explorer, eyes of minions of #Ed the production assistant).
SN66	(74)	Light black plastic with multicolor coatings (cover of book of #Henry the monster summoner).
SN67	(75)	Semi-transparent white soft plastic with multicolor coatings (head, hands, body, base of small monsters of #Henry the monster summoner, torch of #Dick the explorer).
SN68	(76)	Yellow plastic with coatings (dull white, wine red, coral pink) (body of minions of all styles).
SN69	(77)	White plastic with multicolor coatings (eyes, glasses of minions of #Henry the monster summoner, #James the director, #Ed the production assistant, mummy, eyes, glasses, hands, teeth of #Dick the explorer, vidicon of #James the director, videotape of #Ed the production assistant).
SN70	(78)	Dark grey plastic with dull blue coating (vidicon of minions of #James the director).
SN71	(79)	Matt white plastic with coatings (blue, black, dark brown) (eyes, hands, clothing, hair of minions of minions of #James the director, #Ed the production assistant).
SN72	(80)	Earthy yellow plastic with coatings (dark blue, white) (pharaoh of #Dick the explorer).
SN73	(81)	Dull off white plastic with off-white light beige coating (hat of #Dick the explorer).
SN74	(82)	Bright off white plastic with tape flesh color coating (clothing, trousers of #Dick the explorer).
SN75	(83)	Black plastic (inner accessories of #Henry the monster summoner, #Dick the explorer) (internal).
SN76	(84)	White plastic (gears of #James the director, #Ed the production assistant, #Dick the explorer) (internal).



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Tests Conducted

Sequence No.	Test Component No.	Test Component Description(s)
SN77	(85)	White-pale blue plastic (gears of #Ed the production assistant, #James the director) (internal).
SN78	(86)	Dark white plastic (cover of gears of #James the director, #Ed the production assistant) (internal).
SN79	(87)	Matt yellow plastic (cover of motor of #Ed the production assistant) (internal).

The sample weight in bracket(s) were for soluble heavy elements analysis only.

@: Since the sample weight of the component was less than 10 mg, soluble heavy metal analysis was not applicable.

End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band $w = U$) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

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