

Report No.: NB2025021701

Date: February 28, 2025

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Applicant: N.J. Croce Co.

Address: 8437 Track Road, Nampa, ID 83686 USA

The following merchandise were submitted and identified by the clients as:

Photo: Please see attached sheet named "Flash Cards Title List"
SKU: Please see attached sheet named "Flash Cards Title List"
Product Name: Please see attached sheet named "Flash Cards Title List"
UPC-A: Please see attached sheet named "Flash Cards Title List"
Manufacturer: N.J. Croce Co.
Manufacturer Address: 8437 Track Road, Nampa, ID 83686 USA
Applicant's specified age group for testing: 3+
Testing Age Grading: For ages over 3 years
Labeled Age Group: For ages 3 and up/ Ages 3+

The following information were confirmed by the laboratory:

Sample Receiving Date: February 25, 2025
Testing Period: From February 25, 2025 to February 28, 2025
Test Results: Please refer to next pages

Test Requested

Please refer to the next page

Signed for and on behalf of Guangdong NewBest Testing Service Co., Ltd.

Approved by:



Manager

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Photo	SKU	Product Name	UPC-A
	GP 100	Gumby 6" Bendable Figure	054382011000
	GP 101	Pokey 5" Bendable	054382011017
	GP 102	Gumby and Pokey Mini Bendable Pair	054382111021
	GP 106-H	Gumby Mini 3" Bendable	054382011062
	GP 107-H	Pokey Mini 3" Bendable	054382011079
	GP 115	Gumby and Friends Bendable Boxed Set	054382011154
	GP 116	Gumby and Pokey 6" Bendable Pair	054382011161
	KR 108	Gumby 3" Bendable Keychain (Out of Stock)	054382011086

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Photo	SKU	Product Name	UPC-A
	REL 4501	Jesus of Nazareth Bendable	054382345013
	MRB 2600	Mr. Bill 5" Bendable in Blister Card	054382026004

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Summary of test results

Test Requested	Conclusion
1 Mechanical and Physical Properties Requirements -ASTM F963-23, Standard Consumer Safety Specification for Toy Safety	PASS
2 Flammability of Solids Requirement -ASTM F963-23,A5, Standard Consumer Safety Specification for Toy Safety	PASS
3 Mechanical and Physical Properties - EN 71-1: 2014+A1: 2018, Safety of toys	PASS
4 Flammability requirements - EN 71-2: 2020, Safety of toys	PASS
5 Mechanical and Physical Properties - BS EN 71-1: 2014+A1: 2018, Safety of toys	PASS
6 Flammability requirements - BS EN 71-2: 2020, Safety of toys	PASS
7 Mechanical and Physical Properties and Flammability - Canada Consumer Product Safety Act, Toys Regulations SOR/2011-17	PASS
8 Physical and Mechanical Properties - AS/NZS ISO8124.1:2019+A1:2020+A2:2020, Australian/New Zealand Standard for "Safety of toys"	PASS
9 Flammability - AS/NZS 8124.2:2016, Australian/New Zealand Standard for "Safety of toys"	PASS
10 CPSIA Tracking Labels for Children's Products	PASS
11 Total Lead Content in Surface Coating - United States Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 101(f) / United States Code of Federal Regulations (CFR), Title 16, Part 1303	PASS
12 Total Lead Content in Substrate - United States Consumer Product Safety Improvement Act (CPSIA) Section 101(a)(2)	PASS
13 Phthalates Content in Children's Toys and Childcare Articles – Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 108 / 16 CFR part 1307	PASS
14 Total Lead Content in Surface Coating - ASTM F963-23, Section 4.3.5.1(1)	PASS
15 Total Lead Content in Substrate - ASTM F963-23, Section 4.3.5.2(2)(a)	PASS
16 Soluble Heavy Metals Content in Surface Coating - ASTM F963-23, Section 4.3.5.1(2)	PASS
17 Soluble Heavy Metals Content in Substrate - ASTM F963-23, Section 4.3.5.2(2)(b)	PASS
18 Phthalate Content – ASTM F963-23	PASS
19 Total Lead Content in Surface Coating - Illinois Statutes, 410 ILCS 45 Lead Poisoning Prevention Act with Amendments up to Public Act 098-0690, Section 6(b)	PASS

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	Test Requested	Conclusion
20	Total Lead Content in Children Products - California Proposition 65 settlements of Alameda Superior Court RG07356892	PASS
21	Phthalates Content in Toy, Child Care Article and Watch - California Proposition 65 settlements of Sacramento Superior Court 07AS04683 / Alameda Superior Court BG07350969 / RG08367601 / RG07351032 / RG08378050	PASS
22	Phthalates Content- San Francisco Health Code Chapter 34, Sections 34.1-34.3	PASS
23	Phthalates Content- California AB1108	PASS
24	Total Cadmium Content - Washington Children's Safe Products Act (CSPA) - RCW 70A.430.020	PASS
25	Phthalates Content - Washington Children's Safe Products Act (CSPA) - RCW 70A.430.020	PASS
26	Heavy Metals Content in Packaging or Packaging Materials - United States Toxics in Packaging Clearinghouse (TPCH), Model Toxics in Packaging Legislation with Revisions up to 2021	PASS
27	Total Lead Content in Consumer Products - Canada Consumer Product Safety Act (CCPSA), S.C. 2010, c. 21, Consumer Products Containing Lead Regulations SOR/2018-831	PASS
28	Total Lead Content in Surface Coating - Canada Consumer Product Safety Act, Surface Coating Materials Regulation, SOR/2016-193 Sec. 2	PASS
29	Total Mercury Content in Surface Coating Materials - Canada Consumer Product Safety Act, Surface Coating Materials Regulation, SOR/2016-193 Sec 5	PASS
30	Heavy Metals Content in Surface Coating - Toys Regulations SOR/2011-17 with its Latest Amendment, Section 23/ Regulations Amending Certain Regulations Made Under CCPSA (Surface Coating Materials) (SOR/2022-122).	PASS
31	Phthalates Content in Children's Toys And Childcare Articles - Canada Consumer Product Safety Act, Phthalate Regulations, SOR/2016-188	PASS
32	Migration of Certain Elements - EN 71-3:2019+A2:2024, Safety of toys	PASS
33	Migration of Certain Elements - BS EN 71-3:2019+A2:2024, Safety of toys	PASS
34	Migration of Certain Elements -AS/NZS ISO 8124.3-2021+Amd 1:2023, Australian / New Zealand Standard for "Safety of toys"	PASS
35	Total Lead Content in Substrate - Illinois Statutes, 410 ILCS 45 Lead Poisoning Prevention Act with Amendments up to Public Act 098-0690, Section 6(b)	N/A
36	Di-(2-ethylhexyl) phthalate (DEHP) Content - Commonwealth of Australia , Competition and Consumer Act 2010 with Consumer Protection Notice No.11, 2011	N/A

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Remark: Tested part(s) was/were specified by client.
N/A = Not Applicable

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Test results:

Tested part(s) description:

Test Item(s)	Description	Location
I001	White/bright yellow coating	Surface of GOO
I002	Dark red/green coating	Surface of MINGA
I003	Black coating	Surface all style
I004	Beige/dark brown/brown/white/black coating	Surface of Jesus
I005	Blue/red/light yellow/white coating	Surface of Mr.bill
I006	White coating	Surface all style
I007	Bright yellow coating	Surface of GOO
I008	Dark red coating	Surface of MINGA
I009	Green coating	Surface of MINGA
I010	Dark yellow coating	Surface of MINGA/GUMBY
I011	Red coating	Surface of GUMBY/Bill
I012	Navy coating	Surface of POKEY
I013	Beige coating	Surface of Jesus
I014	Dark brown coating	Surface of Jesus
I015	Light yellow coating	Surface of Bill
I016	Blue coating	Surface of Bill
I017	Blue PVC	GOO
I018	Pink PVC	MINGA
I019	Green PVC	GUMBY
I020	Yellow PVC	PRICKLE
I021	Orange PVC	POKEY (large)
I022	Red PVC	Jesus
I023	White PVC	Mr.bill
I024	Cyan PVC	GUMBY
I025	Light orange PVC	POKEY (small)
I026	Silvery metal	Case of lobster clasp
I027	Silvery metal	Switch of lobster clasp
I028	Silvery metal	Axle of lobster clasp
I029	Silvery metal	D ring of lobster clasp
I030	Silvery metal	Keyring
I031	Silvery metal	Small O ring
I032	Silvery metal	Chain
I033	Silvery metal	Triangular ring
I034	Silvery metal	Lobster clasp
I035	Brown coating	Surface of Jesus

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Test results:

Tested part(s) description:

Test Item(s)	Description	Location
I036	Multi-color coating	Surface of paperboard&sticker&box
I037	Transparent plastic	Bag
I038	White paper with adhesive	Sticker
I039	Transparent plastic with adhesive	Adhesive tape
I040	Clear plastic with glue	Window of box
I041	Transparent PVC	Blister
I042	White/brown paperboard	Paperboard&box
I043	White/light gray paperboard	Paperboard
I044	Toys	--

1. Mechanical and Physical Properties Requirements -ASTM F963-23, Standard Consumer Safety Specification for Toy Safety

Section	Requirement	Result
4	Safety requirements	
4.1	Material Quality	M
4.3	Toxicology	
4.3.5	Heavy Elements	M
4.3.5.1	Paint and Similar Surface-Coating Materials	M
4.3.5.2	Toy Substrate Materials	M
4.3.6	Cosmetics, Liquids, Pastes, Putties, Gels, Powders, and Items of Avian Feather Origin	N/A
4.3.7	Stuffing Materials	N/A
4.5	Sound-Producing Toys	N/A
4.6	Small Objects	N/A
4.6.1	For children under 36 months	N/A
4.6.2	Mouth-actuated Toys	N/A
4.6.3	For children 36 months and over but under 72 months	N/A
4.7	Accessible Edges	M
4.8	Projections	N/A
4.9	Accessible Points	M
4.10	Wires and Rods	M

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Section	Requirement	Result
4.11	Nails and Fasteners	N/A
4.12	Plastic Film	N/A
4.13	Folding Mechanisms and Hinges	N/A
4.14	Cords, Straps and Elastics	N/A
4.15	Stability and Over-Load Requirements	N/A
4.16	Confined Spaces	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes, Clearances and Accessibility of Mechanisms	N/A
4.19	Simulated Protective Devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile Toys	N/A
4.22	Teethers and Teething Toys	N/A
4.23	Rattles	N/A
4.24	Squeeze Toys	N/A
4.25	Battery-Operated Toys	N/A
4.26	Toys Intended to be Attached to a Crib or Playpen	N/A
4.27	Stuffed and Beanbag-Type Toys	N/A
4.28	Stroller and carriage toys	N/A
4.30	Toy Gun Marking	N/A
4.31	Balloons	N/A
4.32	Certain Toys with Nearly Spherical Ends	N/A
4.33	Marbles	N/A
4.34	Small Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-Shaped Objects	N/A
4.37	Yo Yo Elastic Tether Toys	N/A
4.38	Magnets	N/A
4.39	Jaw Entrapment in Handles and Steering Wheels	N/A
4.40	Expanding Materials	N/A
4.41	Toy chests	N/A
5	Labeling Requirements	M
5.1	Tracking label	M
5.4&5.3	Aquatic Toys	N/A
5.5&5.3	Crib and Playpen Toys	N/A

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Section	Requirement	Result
5.6&5.3	Mobiles	N/A
5.7&5.3	Stroller and Carriage Toys	N/A
5.8&5.3	Toys Intended to be Assembled by an Adult	N/A
5.9&5.3	Simulated Protective Devices	N/A
5.10&5.3	Toys with Functional Sharp Edges or Points	N/A
5.11	Small Objects, Small Balls, Marbles, and Balloons	N/A
5.12	Art Materials	N/A
5.13	Electric Toys	N/A
5.14&5.3	Battery-operated Toys	N/A
5.15	Promotional Materials	M
5.16&5.3	Magnets	N/A
6	Instructional Literature	M
6.1	Definition and Description	M
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4&5.3	Toys Intended to be Assembled by and Adult	N/A
6.5	Battery operated toys	N/A
6.6	Battery powered ride-on toys	N/A
6.7	Toys in Contact with Food	N/A
6.8	Toy Chests	N/A
6.9	Electric toy matching tools	N/A
7	Producer's Markings	M
7.1	Name of the producer or the distributor	M
	Address of the producer or the distributor	M
7.2	Battery powered ride on toys	N/A
7.3	Toy chests	N/A
8	Test Methods	--
8.5	Normal Use Testing	M
8.5.1	Washable Toys	N/A
8.6	Abuse Testing	M
8.7	Impact Tests	M
8.7.1	Drop Test	M
8.7.2	Tip-over Test for Large, Bulky Toys	N/A
8.7.3	Tumble Test for Wheeled Toys	N/A

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Section	Requirement	Result
8.7.4	Impact Test for Toys that Cover the Face	N/A
8.8	Torque Tests for Removal of Components	M
8.9	Tension Test for Removal of Components	M
8.10	Compression Test	N/A
8.11	Tests for Tire Removal and Snap-in Wheel and Axle Assembly Removal	N/A
8.12	Flexure Test	M
8.13	Test Methods for Mouth-actuated Toys and Mouth-actuated Projectile Toys	N/A
8.14	Projectiles	N/A
8.15	Test for Stability of Ride-on Toys or Toy Seats	N/A
8.16	Tension test for pompoms	N/A
8.17	Stalled Motor Test for Battery-operated Toys	N/A
8.18	Tests for Battery-powered Ride-on Toys	N/A
8.19	Test for Toys that Contain Secondary Cells or Batteries	N/A
8.20	Tests for Toys Which Produce Sound	N/A
8.21	Dynamic Strength Test for Wheeled Ride-on Toys	N/A
8.22	Plastic Film Thickness	N/A
8.23	Test for Loops and Cords	N/A
8.24	Yo Yo Elastic Tether Toy Test Methods	N/A
8.25	Flux Density Measurement	N/A
8.26	Test Methods for Locking Mechanisms or Other Means	N/A
8.27	Tests for Toy Chest Lids and Closures	N/A
8.28	Test for Overload of Ride-On Toys and Toy Seats	N/A
8.29	Stuffing Materials Evaluation	N/A
8.30	Expanding Materials - Test Method	N/A

Note: M = Meet NM = Not meet N/A = Not Applicable NR = Not Requested by the client

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APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the Age Determination Guidelines of the Consumer Product Safety Commission (CPSC); and the ASTM F963-23, "Standard Consumer Safety Specification on Toy Safety". Annex A1

Note : The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.

Note : If the client does not specify an age grade for testing or request Guangdong Newbest Testing Service Co.,Ltd. to determine an appropriate age grade, the labeled age grade will be used for testing.

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:

Testing Items	FHSA	Parameter
Drop Test	Section 1500.53(b)	4×3.0 ft
Torque Test	Section 1500.53(e)	4.0 inch·lbf
Tension Test	Section 1500.53(f)	15 lbf

2. Flammability of Solids Requirement -ASTM F963-23.A5, Standard Consumer Safety Specification for Toy Safety

Test Method: Federal Hazardous Substances Act (FHSA) 16 CFR 1500.44

Test Item	Result	Requirement	Conclusion
I044	Most rapid burn rate is less than 0.1 in. /s	Burn rate should not be greater than 0.1 in/sec.	PASS

- Note:**
- 1.DNI = Did not ignite.
 - 2.IBE = Ignited but self-extinguished before burn-rate could be determined.
 - 3.In accordance with the FHSA 16 CFR 1500.3 (C) (6) (vi), the burning rate should not be greater than 0.1 in/sec.
 - 4.The burn rate of all samples is greater than 0.1 in. /s (2.5 mm/s) but less than 0.15 in. /s (3.75 mm/s), accept and consider further investigation for action to improve performance.
 - 5.All styles of the submitted toy samples (and its accessories) was/were tested, the above result only showed the most severe burn rate of the samples.

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3. Mechanical and Physical Properties - EN 71-1: 2014+A1: 2018, Safety of toys

Section	Testing Items	Assessment
4	General requirements	
4.1	Material cleanliness	M
4.2	Assembly	N/A
4.3	Flexible plastic sheeting	N/A
4.4	Toy bags	N/A
4.5	Glass	N/A
4.6	Expanding materials	N/A
4.7	Edges	M
4.8	Points and metallic wires	M
4.9	Protruding parts	N/A
4.10	Parts moving against each other	N/A
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	N/A
4.12	Balloons	N/A
4.13	Cords of toy kites and other flying toys	N/A
4.14	Enclosures	N/A
4.15	Toys intended to bear the mass of a child	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectiles	N/A
4.18	Aquatic toys and inflatable toys	N/A
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N/A
4.20	Acoustics	N/A
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets	N/A
4.24	Yo-yo balls	N/A
4.25	Toys attached to food	N/A
4.26	Toy disguise costumes	N/A
4.27	Flying toys	N/A
5	Toys intended for children under 36 months	N/A
5.1	General requirements	N/A
5.1a	Small parts – as received	N/A

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Section	Testing Items	Assessment
5.1b	Small parts, sharp points, sharp edges – after tests	N/A
5.1c	Cross section <2mm metal points & wires	N/A
5.1d	Large and bulky toys	N/A
5.1e	Glued wooden toys and toys with glued-on plastic decals	N/A
5.1f	The casing of toys	N/A
5.2	Soft-filled toys and soft-filled parts of toy	N/A
5.3	Plastic sheeting	N/A
5.4	Cords, chains and electrical cables in toys	N/A
5.5	Liquid-filled toys	N/A
5.6	Speed limitation of electrically-driven ride-on toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size of certain toys	N/A
5.9	Toys comprising monofilament fibers	N/A
5.10	Small balls	N/A
5.11	Play figures	N/A
5.12	Hemispheric-shaped toys	N/A
5.13	Suction cups	N/A
5.14	Straps intended to be worn fully or partially around the neck	N/A
5.15	Sledges with cords for pulling	N/A
6	Packaging	N/A
7	Warnings, markings and instructions for use	
7.1	General	NR
7.2	Toys not intended for children under 36 months	NR
7.3	Latex balloons	NR
7.4	Aquatic toys	NR
7.5	Functional toys	NR
7.6	Hazardous sharp functional edges and points	NR
7.7	Projectiles	NR
7.8	Imitation protective masks and helmets	NR
7.9	Toy kites	NR
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NR
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	NR
7.12	Liquids-filled teethingers	NR

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Section	Testing Items	Assessment
7.13	Percussion caps specifically designed for use in toys	NR
7.14	Acoustics	NR
7.15	Toy bicycles	NR
7.16	Toys intended to bear the mass of a child	NR
7.17	Toys comprising monofilament fibres	NR
7.18	Toy scooters	NR
7.19	Rocking horses and similar toys	NR
7.20	Magnetic/electrical experimental sets	NR
7.21	Toys with electrical cables exceeding 300mm in length	NR
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NR
7.23	Toys intended to be attached to a cradle, cot or perambulator	NR
7.24	Sledges with cords for pulling	NR
7.25	Flying toys	NR
7.26	Improvised projectiles	NR

Note: M = Meet NM = Not meet N/A = Not Applicable NR = Not Requested by the client
At request of the client, the section 7 was not evaluated at this submission.

The submitted samples were undergone the use and abuse tests in accordance with the EN 71-1: 2014+A1: 2018.

Testing Items	Parameter
Torque test	0.34Nm
Tension test	90N
Drop test	5 ×850mm
Impact test	1×1Kg×100mm

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Remark: 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:

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.

4. Flammability requirements - EN 71-2: 2020 Safety of toys

Section	Testing Items	Assessment
4.1	General requirements	M
4.1	Cellulose nitrate	M
4.1	Highly flammable solids	M
4.1	Surface flash on a piled surface	N/A
4.1	Flammable gases, Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	N/A
4.2	Toys to be worn on the head	N/A
4.3	Toy disguise costumes and toys intended to be worn by a child in play	N/A
4.4	Toys intended to be entered by a child	N/A
4.5	Soft-filled toys	N/A

Note: M = Meet NM = Not meet N/A = Not Applicable NR = Not Requested by the client

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5. Mechanical and Physical Properties - BS EN 71-1: 2014+A1: 2018, Safety of toys

Section	Testing Items	Assessment
4	General requirements	
4.1	Material cleanliness	M
4.2	Assembly	N/A
4.3	Flexible plastic sheeting	N/A
4.4	Toy bags	N/A
4.5	Glass	N/A
4.6	Expanding materials	N/A
4.7	Edges	M
4.8	Points and metallic wires	M
4.9	Protruding parts	N/A
4.10	Parts moving against each other	N/A
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	N/A
4.12	Balloons	N/A
4.13	Cords of toy kites and other flying toys	N/A
4.14	Enclosures	N/A
4.15	Toys intended to bear the mass of a child	N/A
4.16	Heavy immobile toys	N/A
4.17	Projectiles	N/A
4.18	Aquatic toys and inflatable toys	N/A
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N/A
4.20	Acoustics	N/A
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23	Magnets	N/A
4.24	Yo-yo balls	N/A
4.25	Toys attached to food	N/A
4.26	Toy disguise costumes	N/A
4.27	Flying toys	N/A
5	Toys intended for children under 36 months	N/A
5.1	General requirements	N/A
5.1a	Small parts – as received	N/A

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Section	Testing Items	Assessment
5.1b	Small parts, sharp points, sharp edges – after tests	N/A
5.1c	Cross section <2mm metal points & wires	N/A
5.1d	Large and bulky toys	N/A
5.1e	Glued wooden toys and toys with glued-on plastic decals	N/A
5.1f	The casing of toys	N/A
5.2	Soft-filled toys and soft-filled parts of toy	N/A
5.3	Plastic sheeting	N/A
5.4	Cords, chains and electrical cables in toys	N/A
5.5	Liquid-filled toys	N/A
5.6	Speed limitation of electrically-driven ride-on toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size of certain toys	N/A
5.9	Toys comprising monofilament fibers	N/A
5.10	Small balls	N/A
5.11	Play figures	N/A
5.12	Hemispheric-shaped toys	N/A
5.13	Suction cups	N/A
5.14	Straps intended to be worn fully or partially around the neck	N/A
5.15	Sledges with cords for pulling	N/A
6	Packaging	N/A
7	Warnings, markings and instructions for use	
7.1	General	NR
7.2	Toys not intended for children under 36 months	NR
7.3	Latex balloons	NR
7.4	Aquatic toys	NR
7.5	Functional toys	NR
7.6	Hazardous sharp functional edges and points	NR
7.7	Projectiles	NR
7.8	Imitation protective masks and helmets	NR
7.9	Toy kites	NR
7.10	Roller skates, inline skates, skateboards and certain other ride-on toys	NR
7.11	Toys intended to be attached to or strung across a cradle, cot, or	NR

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Section	Testing Items	Assessment
	perambulator	
7.12	Liquids-filled teethers	NR
7.13	Percussion caps specifically designed for use in toys	NR
7.14	Acoustics	NR
7.15	Toy bicycles	NR
7.16	Toys intended to bear the mass of a child	NR
7.17	Toys comprising monofilament fibres	NR
7.18	Toy scooters	NR
7.19	Rocking horses and similar toys	NR
7.20	Magnetic/electrical experimental sets	NR
7.21	Toys with electrical cables exceeding 300mm in length	NR
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NR
7.23	Toys intended to be attached to a cradle, cot or perambulator	NR
7.24	Sledges with cords for pulling	NR
7.25	Flying toys	NR
7.26	Improvised projectiles	NR

Note: M = Meet NM = Not meet N/A = Not Applicable NR = Not Requested by the client
At request of the client, the section 7 was not evaluated at this submission.

The submitted samples were undergone the use and abuse tests in accordance with the BS EN 71-1: 2014+A1: 2018.

Testing Items	Parameter
Torque test	0.34Nm
Tension test	90N
Drop test	5 ×850mm
Impact test	1×1Kg×100mm
Flexibility test	Bending 30 cycles

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6. Flammability requirements - BS EN 71-2: 2020 Safety of toys

Section	Testing Items	Assessment
4.1	General requirements	M
4.1	Cellulose nitrate	M
4.1	Highly flammable solids	M
4.1	Surface flash on a piled surface	N/A
4.1	Flammable gases,Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	N/A
4.2	Toys to be worn on the head	N/A
4.3	Toy disguise costumes and toys intended to be worn by a child in play	N/A
4.4	Toys intended to be entered by a child	N/A
4.5	Soft-filled toys	N/A

Note: M = Meet NM = Not meet N/A = Not Applicable NR = Not Requested by the client

7. Mechanical and Physical Properties and Flammability - Canada Consumer Product Safety Act, toys Regulations SOR/2011-17

Section	Testing Items	Assessment
3	General-Official languages	N/A
4	Packaging-Flexible film bags	M
5	Electrically operated toys	N/A
6	Electrically heated toys	N/A
7	Small parts	N/A
8	Metal edges	N/A
9	Wire frames	N/A
10	Plastic edges	M
11	Wood	N/A
12	Glass	N/A
13	Fasteners	N/A
14	Safety stops or locking devices-Folding mechanisms	N/A
15	Spring-wound driving mechanism	N/A
16	Projectile component	N/A
17	Enclosures	N/A

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Section	Testing Items	Assessment
18	Stability	N/A
19	Auditory hazards–Decibel limit	N/A
20	Heated surfaces,parts or substances	N/A
21	Flammability hazards–Celluloid or cellulose nitrate	M
28	Dolls, Plush toys or Soft toys–Fastening	N/A
29	Dolls, Plush toys or Soft toys–Stuffing materials	N/A
30	Dolls, Plush toys or Soft toys–Small parts	N/A
31	Dolls, Plush toys or Soft toys–Eyes or nose	N/A
32	Dolls, Plush toys or Soft toys–Flammability of outer covering	N/A
33	Dolls, Plush toys or Soft toys–Flammability of yarn	N/A
34	Dolls, Plush toys or Soft toys–Flammability of hair or mane	N/A
35&36	Plant seeds	N/A
37	Pull and push toys–Shaft-like handles	N/A
38	Toy steam engines	N/A
39	Finger paints	N/A
40	Rattles	N/A
41	Elastics	N/A
42	Yo-Yo type balls	N/A
43	Magnetic force	N/A
44	Educational experimental kit - Labeling	N/A

Note: M = Meet NM = Not meet N/A = Not Applicable NR = Not Requested by the client

The submitted samples were undergone the abuse tests in accordance with the Canada Consumer Product Safety Act, Toys Regulations SOR/2011-17:

Testing Items	Parameter
Drop test	4×3 ft
Push/Pull test	10 lbs

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8. Physical and Mechanical Properties - AS/NZS ISO 8124-1:2023,Australian/New Zealand Standard for "Safety of toys"

Clause	Test request	Assessment
4	General Requirements	
4.1	Normal use	M
4.2	Reasonably foreseeable abuse	M
4.3	Material	M
4.4	Small parts	
4.4.1	For children under 36 months	N/A
4.4.2	For children 36 months and over but under 72 months	M
4.5	Shape, size, and strength of certain toys	N/A
4.6	Edges	M
4.7	Points	M
4.8	Projections	N/A
4.9	Metal wires and rods	M
4.10	Plastic film or plastic bags in packaging and in toys	N/A
4.11	Cords	N/A
4.12	Folding mechanisms	N/A
4.13	Holes, clearances and accessibility of mechanisms	N/A
4.14	Springs	N/A
4.15	Stability and overload requirements	N/A
4.16	Enclosures	N/A
4.17	Simulated protective equipment, such as helmets, hats and goggles.	N/A
4.18	Projectile toys	N/A
4.19	Flying toys	N/A
4.20	Aquatic toys	N/A
4.21	Braking	N/A
4.22	Toy bicycles	N/A
4.23	Speed limitation of electrically driven ride-on toys	N/A
4.24	Toys containing a heat source	N/A
4.25	Liquid-filled toys	N/A
4.26	Mouth-actuated toys	N/A
4.27	Toy roller skates, toy inline skates and toy skateboards	N/A
4.28	Percussion caps specifically designed for use in toys	N/A

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Clause	Test request	Assessment
4.29	Acoustic requirements	N/A
4.30	Toy scooters	N/A
4.31	Magnets and magnetic components	N/A
4.32	Yo-Yo balls	N/A
4.33	Straps intended to be worn fully or partially around the neck	N/A
4.34	Sledges and toboggans with cords for pulling	N/A
4.35	Jaw entrapment in handles and steering wheels	N/A
4.36	Assembly	N/A
4.37	Functional toys	N/A
4.38	Toys intended to come into contact with food	N/A
4.39	Inflatable toys	N/A
Annex B	Safety-labeling guidelines and manufacturer's markings	
B.2	Safety-labelling guidelines	M
B.2.1	Good practice for visibility and legibility	M
B.2.3	Toys that are small parts, toys containing small parts and toys with removable small part components	M
B.2.4	Balloons	N/A
B.2.5	Small balls and marbles	N/A
B.2.6	Aquatic toys	N/A
B.2.7	Toys intended to come into contact with food	N/A
B.2.8	Toys intended to be assembled by an adult	N/A
B.2.9	Toys intended to be strung across a cradle, cot, perambulator or carriage	N/A
B.2.10	Simulated protective equipment	N/A
B.2.11	Toys with functional sharp edges and functional sharp points	N/A
B.2.12	Functional toys	N/A
B.2.13	Toy roller skates, toy inline skates and toy skateboards	N/A
B.2.14	Toy kites	N/A
B.2.15	Toy bicycles	N/A
B.2.16	Percussion caps	N/A
B.2.17	Toys which produce high peak sound pressure levels	N/A
B.2.18	Toy scooters	N/A
B.2.19	Magnetic or electrical experimental sets for children 8 years and over	N/A
B.2.20	Toys with electrical cables exceeding 300 mm in length	N/A

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Clause	Test request	Assessment
B.2.21	Cords in toys intended for children 18 months and over but under 36	N/A
B.2.22	Sledges and toboggans with cords for pulling	N/A
B.2.23	Toys intended to be attached to a cradle, cot, perambulator or carriage or intended to be suspended over a cot from a wall or ceiling	N/A
B.2.24	Flying toys	N/A
B.3	Instructional literature	M
B.3.1	Information and instructions	M
B.3.2	Crib, playpen toys and mobiles	N/A
B.3.3	Crib gyms and similar toys	N/A
B.3.4	Toy chests	N/A
B.3.5	Liquid-filled teethers and liquid-filled teething toys	N/A
B.3.6	Toys intended to be assembled by an adult	N/A
B.3.7	Projectile toys	N/A
B.3.8	Toy bicycles	N/A
B.3.9	Toy scooters	N/A
B.3.10	Remote-controlled flying toys	N/A
B.4	Manufacturer's markings	M
	The name, trademark or mark of the manufacturer or the distributor	M
	The address of the manufacturer or the distributor	M
D	Toy gun marking	N/A

Note: M = Meet NM = Not meet N/A = Not Applicable NR = Not Requested by the client

The submitted samples were undergone the use and abuse tests in accordance with the AS/NZS ISO 8124-1:2023

Testing Items	Parameter
Drop test	4×93cm
Torque test	0.45N·m
Tension test	70N

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9. Flammability - AS/NZS 8124.2:2016, Australian/New Zealand Standard for "Safety of toys"

Clause	Test request	Assessment
4	Requirements	
4.1	General requirements	M
4.1	Celluloid (cellulose nitrate)	M
4.1	Surface flash on a piled surface	N/A
4.1	Flammable Gases	N/A
4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	N/A
4.2	Toys to be worn on the head	N/A
4.3	Toy disguise costumes and toys intended to be worn by a child in a play	N/A
4.4	Toys intended to be entered by a child	N/A
4.5	Soft-filled toys	N/A

Note: M = Meet NM = Not meet N/A = Not Applicable

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10. CPSIA Tracking Labels for Children's Products

Test Method: As specified in Consumer Product Safety Improvement Act (CPSIA) of 2008 Section 103

Tracking label on the product

Requirement	Result
Name of the manufacture or the name of the private labeler.	Present
Manufacture location, including the name of the city and country, or the name of other means of coding of city and state.	Present
Date of the production of the product, in a form of Month/ Year or any other coding system.	Present
The cohort information (including the batch, run number, or other identifying characteristic.	Present
Permanent remark	Present

Tracking label on the packaging

Requirement	Result
Name of the manufacture or the name of the private labeler.	Present
Manufacture location, including the name of the city and country, or the name of other means of coding of city and state.	Present
Date of the production of the product, in a form of Month/ Year or any other coding system.	Present
The cohort information (including the batch, run number, or other identifying characteristic.	Present
Permanent remark	Present

Note: The tracking label assessment was based on the submitted samples and the information provided or not provided by the applicant. There is no verification on the validity of such information.

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11. Total Lead Content in Surface Coating - United States Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 101(f) / United States Code of Federal Regulations (CFR), Title 16, Part 1303

Test Method: CPSC-CH-E1003-09.1, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry or Atomic Absorption Spectrometry.

Limit	90 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I006	N.D.	PASS
I007	N.D.	PASS
I008	N.D.	PASS
I009	N.D.	PASS
I010	N.D.	PASS
I011	N.D.	PASS
I012	N.D.	PASS
I013	N.D.	PASS
I014	N.D.	PASS
I015	N.D.	PASS
I016	N.D.	PASS
I035	N.D.	PASS

Note: N.D.= Not Detected(<MDL)
mg/kg = milligram per kilogram = ppm = part per million
MDL= Detection Limit (mg/kg): 10

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12. Total Lead Content in Substrate - United States Consumer Product Safety Improvement Act (CPSIA) Section 101(a)(2)

Test Method: CPSC-CH-E1002-08.3 or CPSC-CH-E1001-08.3, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry or Atomic Absorption Spectrometry.

Limit	100 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I017+I018+I019	N.D.	PASS
I020+I021+I022	N.D.	PASS
I023+I024+I025	N.D.	PASS
I026+I027+I028	15	PASS
I029+I030+I031	19	PASS
I032+I033	N.D.	PASS

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit (mg/kg): 10
 Results shown are of the total weight of mixed samples.

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13. Phthalates Content in Children's Toys and Childcare Articles – Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 108 / 16 CFR part 1307

Test Method: CPSC-CH-C1001-09.4, Analyzed by Gas Chromatography-Mass Spectrometer.

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I006+I007+I008	I009+I010+I011
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.005	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I012+I013+I014	I015+I016+I035
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.007	0.006
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

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Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I017+I018+I019	I020+I021+I022
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.005	0.007
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)
		Test Item(s)
		I023+I024+I025
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.009
Dibutyl phthalate (DBP)	0.1	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.
Conclusion	--	PASS

Note: N.D. = Not detected(<MDL)

MDL= Detection Limit: 0.005%

mg/kg = milligram per kilogram = ppm = part per million

10000 mg/kg = 1 %

Results shown are of the total weight of mixed samples.

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14. Total Lead Content in Surface Coating - ASTM F963-23, Section 4.3.5.1(1)

Test Method: ASTM F963-23 Section 8.3.1, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry or Atomic Absorption Spectrometry.

Limit	90 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I006	N.D.	PASS
I007	N.D.	PASS
I008	N.D.	PASS
I009	N.D.	PASS
I010	N.D.	PASS
I011	N.D.	PASS
I012	N.D.	PASS
I013	N.D.	PASS
I014	N.D.	PASS
I015	N.D.	PASS
I016	N.D.	PASS
I035	N.D.	PASS

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit (mg/kg): 10

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15. Total Lead Content in Substrate - ASTM F963-23, Section 4.3.5.2(2)(a)

Test Method: ASTM F963-23 Section 8.3.1, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry or Atomic Absorption Spectrometry.

Limit	100 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I017+I018+I019	N.D.	PASS
I020+I021+I022	N.D.	PASS
I023+I024+I025	N.D.	PASS
I026+I027+I028	15	PASS
I029+I030+I031	19	PASS
I032+I033	N.D.	PASS

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit (mg/kg): 10
 Results shown are of the total weight of mixed samples.

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16. Soluble Heavy Metals Content in Surface Coating - ASTM F963-23, Section 4.3.5.1(2)

Test Method: ASTM F963-23, Sections 8.3.2 to 8.3.4, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry.

Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I001	I002	I003	I004	I005	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	6	N.D.	N.D.	16	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	PASS	PASS	PASS	PASS	PASS	--

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit (mg/kg): 5

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17. Soluble Heavy Metals Content in Substrate - ASTM F963-23, Section 4.3.5.2(2)(b)

Test Method: ASTM F963-23, Section 8.3.5 (Excluding 8.3.5.5(3)), Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry.

Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I017	I018	I019	I020	I021	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	PASS	PASS	PASS	PASS	PASS	--

Analyte	Result (mg/kg)					Limit (mg/kg)
	Test Item(s)					
	I022	I023	I024	I025	I034	
Soluble Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	25
Soluble Barium (Ba)	N.D.	20	N.D.	N.D.	N.D.	1000
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	75
Soluble Chromium (Cr)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	90
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	60
Soluble Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	500
Conclusion	PASS	PASS	PASS	PASS	PASS	--

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit (mg/kg): 5

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18. Phthalate Content – ASTM F963-23

Test Method: CPSC-CH-C1001-09.4, Analyzed by Gas Chromatography-Mass Spectrometer.

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I006+I007+I008	I009+I010+I011
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.005	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I012+I013+I014	I015+I016+I035
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.007	0.006
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

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Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I017+I018+I019	I020+I021+I022
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.005	0.007
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)
		Test Item(s)
		I023+I024+I025
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.009
Dibutyl phthalate (DBP)	0.1	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.
Conclusion	--	PASS

Note: N.D. = Not detected(<MDL)

MDL= Detection Limit: 0.005%

mg/kg = milligram per kilogram = ppm = part per million

10000 mg/kg = 1 %

Results shown are of the total weight of mixed samples.

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19. Total Lead Content in Surface Coating - Illinois Statutes, 410 ILCS 45 Lead Poisoning Prevention Act with Amendments up to Public Act 098-0690, Section 6(b)

Test Method: CPSC-CH-E1003-09.1, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry or Atomic Absorption Spectrometry.

Limit	40 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I006	N.D.	PASS
I007	N.D.	PASS
I008	N.D.	PASS
I009	N.D.	PASS
I010	N.D.	PASS
I011	N.D.	PASS
I012	N.D.	PASS
I013	N.D.	PASS
I014	N.D.	PASS
I015	N.D.	PASS
I016	N.D.	PASS
I035	N.D.	PASS

Note: N.D.= Not Detected(<MDL)
mg/kg = milligram per kilogram = ppm = part per million
MDL= Detection Limit (mg/kg): 10

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20. Total Lead Content in children products - California Proposition 65 settlements of Alameda Superior Court RG07356892

Test Method: CPSC-CH-E1002-08.3 or CPSC-CH-E1003-09.1, Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry or Atomic Absorption Spectrometry.

Limit	Type I	Paints and surface coating : 90 mg/kg		
	Type II	Substrates : 100 mg/kg		
-	Unit	Result		
Test Item(s)	--	I006	I007	I008
Type	--	I	I	I
Total Lead (Pb)	mg/kg	N.D.	N.D.	N.D.
Conclusion	--	PASS	PASS	PASS

-	Unit	Result		
Test Item(s)	--	I009	I010	I011
Type	--	I	I	I
Total Lead (Pb)	mg/kg	N.D.	N.D.	N.D.
Conclusion	--	PASS	PASS	PASS

-	Unit	Result		
Test Item(s)	--	I012	I013	I014
Type	--	I	I	I
Total Lead (Pb)	mg/kg	N.D.	N.D.	N.D.
Conclusion	--	PASS	PASS	PASS

-	Unit	Result		
Test Item(s)	--	I015	I016	I017+I018+I019
Type	--	I	I	II
Total Lead (Pb)	mg/kg	N.D.	N.D.	N.D.
Conclusion	--	PASS	PASS	PASS

-	Unit	Result		
Test Item(s)	--	I020+I021+I022	I023+I024+I025	I026+I027+I028
Type	--	II	II	II
Total Lead (Pb)	mg/kg	N.D.	N.D.	15
Conclusion	--	PASS	PASS	PASS

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-	Unit	Result		
Test Item(s)	--	I029+I030+I031	I032+I033	I035
Type	--	II	II	II
Total Lead (Pb)	mg/kg	19	N.D.	N.D.
Conclusion	--	PASS	PASS	PASS

Note: N.D.= Not Detected(<MDL)
mg/kg = milligram per kilogram = ppm = part per million
MDL= Detection Limit (mg/kg): 10
Results shown are of the total weight of mixed samples.

21. Phthalates Content in Toy, Child Care Article and Watch - California Proposition 65 settlements of Sacramento Superior Court 07AS04683 / Alameda Superior Court BG07350969 / RG08367601 / RG07351032 / RG08378050

Test Method: With reference to CPSC-CH-C1001-09.4, analyzed by Gas Chromatography-Mass Spectrometer.

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I006+I007+I008	I009+I010+I011
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.005	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-isononyl phthalate (DINP)	0.1	N.D.	N.D.
Di-isodecyl phthalate (DIDP)	0.1	N.D.	N.D.
Di-n-octyl phthalate (DNOP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

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Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I012+I013+I014	I015+I016+I035
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.007	0.006
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-isononyl phthalate (DINP)	0.1	N.D.	N.D.
Di-isodecyl phthalate (DIDP)	0.1	N.D.	N.D.
Di-n-octyl phthalate (DNOP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I017+I018+I019	I020+I021+I022
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.005	0.007
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-isononyl phthalate (DINP)	0.1	N.D.	N.D.
Di-isodecyl phthalate (DIDP)	0.1	N.D.	N.D.
Di-n-octyl phthalate (DNOP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I023+I024+I025	
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.009	
Dibutyl phthalate (DBP)	0.1	N.D.	
Benzylbutyl phthalate (BBP)	0.1	N.D.	
Di-isononyl phthalate (DINP)	0.1	N.D.	
Di-isodecyl phthalate (DIDP)	0.1	N.D.	
Di-n-octyl phthalate (DNOP)	0.1	N.D.	
Conclusion	--	PASS	

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Note: N.D. = Not detected(<MDL)

MDL= Detection Limit: 0.005%

mg/kg = milligram per kilogram = ppm = part per million

10 000 mg/kg = 1 %

Results shown are of the total weight of mixed samples.

22. Phthalates Content- San Francisco Health Code Chapter 34, Sections 34.1-34.3

Test Method: With reference to CPSC-CH-C1001-09.4, analyzed by Gas Chromatography-Mass Spectrometer.

Analyte	CAS No.	Result (%, w/w)		Requirement (%, w/w)
		Test Item(s)		
		I006+I007+I008	I009+I010+I011	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	0.005	N.D.	0.1
Dibutyl phthalate (DBP)	84-74-2	N.D.	N.D.	0.1
Benzylbutyl phthalate (BBP)	85-68-7	N.D.	N.D.	0.1
Di-isononyl phthalate (DINP)	28553-12-0	N.D.	N.D.	0.1
Di-isodecyl phthalate (DIDP)	68515-49-1	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)	117-84-0	N.D.	N.D.	0.1
Conclusion		PASS	PASS	--

Analyte	CAS No.	Result (%, w/w)		Requirement (%, w/w)
		Test Item(s)		
		I012+I013+I014	I015+I016+I035	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	0.007	0.006	0.1
Dibutyl phthalate (DBP)	84-74-2	N.D.	N.D.	0.1
Benzylbutyl phthalate (BBP)	85-68-7	N.D.	N.D.	0.1
Di-isononyl phthalate (DINP)	28553-12-0	N.D.	N.D.	0.1
Di-isodecyl phthalate (DIDP)	68515-49-1	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)	117-84-0	N.D.	N.D.	0.1
Conclusion		PASS	PASS	--

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Analyte	CAS No.	Result (% w/w)		Requirement (% w/w)
		Test Item(s)		
		I017+I018+I019	I020+I021+I022	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	0.005	0.007	0.1
Dibutyl phthalate (DBP)	84-74-2	N.D.	N.D.	0.1
Benzylbutyl phthalate (BBP)	85-68-7	N.D.	N.D.	0.1
Di-isononyl phthalate (DINP)	28553-12-0	N.D.	N.D.	0.1
Di-isodecyl phthalate (DIDP)	68515-49-1	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)	117-84-0	N.D.	N.D.	0.1
Conclusion		PASS	PASS	--

Analyte	CAS No.	Result (% w/w)	Requirement (% w/w)
		Test Item(s)	
		I023+I024+I025	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	0.009	0.1
Dibutyl phthalate (DBP)	84-74-2	N.D.	0.1
Benzylbutyl phthalate (BBP)	85-68-7	N.D.	0.1
Di-isononyl phthalate (DINP)	28553-12-0	N.D.	0.1
Di-isodecyl phthalate (DIDP)	68515-49-1	N.D.	0.1
Di-n-octyl phthalate (DNOP)	117-84-0	N.D.	0.1
Conclusion		PASS	--

Note: N.D. = Not detected(<MDL)

MDL= Detection Limit: 0.005%

mg/kg = milligram per kilogram = ppm = part per million

10 000 mg/kg = 1 %

Results shown are of the total weight of mixed samples.

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23. Phthalates Content- California AB1108

Test Method: With reference to CPSC-CH-C1001-09.4, analyzed by Gas Chromatography-Mass Spectrometer.

Analyte	CAS No.	Result (%, w/w)		Requirement (%, w/w)
		Test Item(s)		
		I006+I007+I008	I009+I010+I011	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	0.005	N.D.	0.1
Dibutyl phthalate (DBP)	84-74-2	N.D.	N.D.	0.1
Benzylbutyl phthalate (BBP)	85-68-7	N.D.	N.D.	0.1
Di-isononyl phthalate (DINP)	28553-12-0	N.D.	N.D.	0.1
Di-isodecyl phthalate (DIDP)	68515-49-1	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)	117-84-0	N.D.	N.D.	0.1
Conclusion		PASS	PASS	--

Analyte	CAS No.	Result (%, w/w)		Requirement (%, w/w)
		Test Item(s)		
		I012+I013+I014	I015+I016+I035	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	0.007	0.006	0.1
Dibutyl phthalate (DBP)	84-74-2	N.D.	N.D.	0.1
Benzylbutyl phthalate (BBP)	85-68-7	N.D.	N.D.	0.1
Di-isononyl phthalate (DINP)	28553-12-0	N.D.	N.D.	0.1
Di-isodecyl phthalate (DIDP)	68515-49-1	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)	117-84-0	N.D.	N.D.	0.1
Conclusion		PASS	PASS	--

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Analyte	CAS No.	Result (% w/w)		Requirement (% w/w)
		Test Item(s)		
		I017+I018+I019	I020+I021+I022	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	0.005	0.007	0.1
Dibutyl phthalate (DBP)	84-74-2	N.D.	N.D.	0.1
Benzylbutyl phthalate (BBP)	85-68-7	N.D.	N.D.	0.1
Di-isononyl phthalate (DINP)	28553-12-0	N.D.	N.D.	0.1
Di-isodecyl phthalate (DIDP)	68515-49-1	N.D.	N.D.	0.1
Di-n-octyl phthalate (DNOP)	117-84-0	N.D.	N.D.	0.1
Conclusion		PASS	PASS	--

Analyte	CAS No.	Result (% w/w)	Requirement (% w/w)
		Test Item(s)	
		I023+I024+I025	
Di-(2-ethylhexyl) phthalate (DEHP)	117-81-7	0.009	0.1
Dibutyl phthalate (DBP)	84-74-2	N.D.	0.1
Benzylbutyl phthalate (BBP)	85-68-7	N.D.	0.1
Di-isononyl phthalate (DINP)	28553-12-0	N.D.	0.1
Di-isodecyl phthalate (DIDP)	68515-49-1	N.D.	0.1
Di-n-octyl phthalate (DNOP)	117-84-0	N.D.	0.1
Conclusion		PASS	--

Note: N.D. = Not detected(<MDL)

MDL= Detection Limit: 0.005%

mg/kg = milligram per kilogram = ppm = part per million

10 000 mg/kg = 1 %

Results shown are of the total weight of mixed samples.

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24. Total Cadmium Content - Washington Children's Safe Products Act (CSPA) - RCW 70A.430.020

Test Method: With reference to CPSC-CH-E1002-08.3 & CPSC-CH-E1003-09.1 & CPSC-CH-E1001-08.3 , Analyzed by Inductively Coupled Plasma Optical Emission Spectrometry or Atomic Absorption Spectrometry.

Limit	40 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I006	N.D.	PASS
I007	N.D.	PASS
I008	N.D.	PASS
I009	N.D.	PASS
I010	N.D.	PASS
I011	N.D.	PASS
I012	N.D.	PASS
I013	N.D.	PASS
I014	N.D.	PASS
I015	N.D.	PASS
I016	N.D.	PASS
I017+I018+I019	N.D.	PASS
I020+I021+I022	N.D.	PASS
I023+I024+I025	N.D.	PASS
I026+I027+I028	N.D.	PASS
I029+I030+I031	N.D.	PASS
I032+I033	N.D.	PASS
I035	N.D.	PASS

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit (mg/kg): 10
 Results shown are of the total weight of mixed samples.

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25. Phthalates Content - Washington Children's Safe Products Act (CSPA) - RCW 70A.430.020

Test Method: Extracted with organic solvent, Analyzed by Gas Chromatography-Mass Spectrometer.

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I006+I007+I008	I009+I010+I011
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.005	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I012+I013+I014	I015+I016+I035
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.007	0.006
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

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Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I017+I018+I019	I020+I021+I022
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.005	0.007
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)
		Test Item(s)
		I023+I024+I025
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.009
Dibutyl phthalate (DBP)	0.1	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.
Di-iso-butyl phthalate (DINP)	0.1	N.D.
Di-iso-butyl phthalate (DIBP)	0.1	N.D.
Di-n-pentyl phthalate (DPENP/DnPP)	0.1	N.D.
Di-n-hexyl phthalate (DHEXP/DnHP)	0.1	N.D.
Dicyclohexyl phthalate (DCHP)	0.1	N.D.
Conclusion	--	PASS

Note: N.D. = Not detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 10000 mg/kg = 1 %
 Results shown are of the total weight of mixed samples.

MDL= Detection Limit: 0.005%

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26. Heavy Metals Content in Packaging or Packaging Materials - United States Toxics in Packaging Clearinghouse (TPCH), Model Toxics in Packaging Legislation with Revisions up to 2021

Test Method: Acid digestion, determined by Inductively Coupled Argon Plasma Spectrometry, and Hexavalent Chromium content was determined by UV-Visible Spectrophotometry.

Analyte	Requirement (mg/kg)	Result (mg/kg)			
		Test Item(s)			
		I036	I037	I038	I039
Lead (Pb)	--	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	--	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	--	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (Cr ⁶⁺)	--	N.D.	N.D.	N.D.	N.D.
Sum of Pb+Cd+Hg+ Cr ⁶⁺	100	N.D.	N.D.	N.D.	N.D.
Conclusion	--	PASS	PASS	PASS	PASS

Analyte	Requirement (mg/kg)	Result (mg/kg)			
		Test Item(s)			
		I040	I041	I042	I043
Lead (Pb)	--	N.D.	N.D.	N.D.	N.D.
Cadmium (Cd)	--	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	--	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (Cr ⁶⁺)	--	N.D.	N.D.	N.D.	N.D.
Sum of Pb+Cd+Hg+ Cr ⁶⁺	100	N.D.	N.D.	N.D.	N.D.
Conclusion	--	PASS	PASS	PASS	PASS

Note: N.D. = Not detected(<MDL)

MDL= Detection Limit (mg/kg) : 10

mg/kg = milligram per kilogram = ppm = part per million

10 000 mg/kg = 1 %

With reference to IEC 62321-5: 2013 for total chromium screening first.

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27. Total Lead Content in Consumer Products - Canada Consumer Product Safety Act (CCPSA), S.C. 2010, c. 21, Consumer Products Containing Lead Regulations SOR/2018-83

Test Method: Acid digestion method was used, and then followed by Inductively Coupled Plasma Optical Emission Spectrometry analysis

Limit	90 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I006	N.D.	PASS
I007	N.D.	PASS
I008	N.D.	PASS
I009	N.D.	PASS
I010	N.D.	PASS
I011	N.D.	PASS
I012	N.D.	PASS
I013	N.D.	PASS
I014	N.D.	PASS
I015	N.D.	PASS
I016	N.D.	PASS
I017+I018+I019	N.D.	PASS
I020+I021+I022	N.D.	PASS
I023+I024+I025	N.D.	PASS
I026+I027+I028	15	PASS
I029+I030+I031	19	PASS
I032+I033	N.D.	PASS
I035	N.D.	PASS

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit (mg/kg): 10
 Results shown are of the total weight of mixed samples.

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28. Total Lead Content in Surface Coating - Canada Consumer Product Safety Act, Surface Coating Materials Regulation, SOR/2016-193 Sec. 2

Test Method: Product safety laboratory Book 5-Laboratory Policies and Procedures Part B:Test methods section, Method C-02.2(2017) Determination of Total Lead in Surface Coating Materials in Consumer Products

Limit	90 mg/kg	
Test Item(s)	Result (mg/kg)	Conclusion
I006	N.D.	PASS
I007	N.D.	PASS
I008	N.D.	PASS
I009	N.D.	PASS
I010	N.D.	PASS
I011	N.D.	PASS
I012	N.D.	PASS
I013	N.D.	PASS
I014	N.D.	PASS
I015	N.D.	PASS
I016	N.D.	PASS
I035	N.D.	PASS

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit (mg/kg): 10
 Results shown are of the total weight of mixed samples.

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29. Total Mercury Content in Surface Coating Materials - Canada Consumer Product Safety Act, Surface Coating Materials Regulation, SOR/2016-193 Sec 5

Test Method: Product safety laboratory Book 5-Laboratory policies and procedures Part B:Test methods section, Method C-07(2017) Determination of Total Mercury in Surface Coating Materials, Applied Coatings, and Cosmetic Samples

Limit	Not Detectable (Less than 10 mg/kg)	
Test Item(s)	Result (mg/kg)	Conclusion
I006	N.D.	PASS
I007	N.D.	PASS
I008	N.D.	PASS
I009	N.D.	PASS
I010	N.D.	PASS
I011	N.D.	PASS
I012	N.D.	PASS
I013	N.D.	PASS
I014	N.D.	PASS
I015	N.D.	PASS
I016	N.D.	PASS
I035	N.D.	PASS

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit (mg/kg): 10
 Results shown are of the total weight of mixed samples.

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30. Heavy Metals Content in Surface Coating - Toys Regulations SOR/2011-17 with its Latest Amendment, Section 23/ Regulations Amending Certain Regulations Made Under CCPSA (Surface Coating Materials) (SOR/2022-122).

Test Method: With reference to EN 71-3:2019+A1:2021

Analyte	Result (mg/kg)			Requirement (mg/kg)
	Test Item(s)			
	I001	I002	I003	
Total Lead (Pb)	N.D.	N.D.	N.D.	90
Total Mercury (Hg)	N.D.	N.D.	N.D.	ND
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	1000
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	1000
Soluble Arsenic (As)	N.D.	N.D.	N.D.	1000
Soluble Barium (Ba)	N.D.	6	N.D.	1000
Soluble Selenium (Se)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	--

Analyte	Result (mg/kg)			Requirement (mg/kg)
	Test Item(s)			
	I004	I005	I012	
Total Lead (Pb)	N.D.	N.D.	N.D.	90
Total Mercury (Hg)	N.D.	N.D.	N.D.	ND
Soluble Cadmium (Cd)	N.D.	N.D.	N.D.	1000
Soluble Antimony (Sb)	N.D.	N.D.	N.D.	1000
Soluble Arsenic (As)	N.D.	N.D.	N.D.	1000
Soluble Barium (Ba)	N.D.	16	N.D.	1000
Soluble Selenium (Se)	N.D.	N.D.	N.D.	1000
Conclusion	PASS	PASS	PASS	--

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit (mg/kg): 5

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31. Phthalates Content in Children's Toys And Childcare Articles - Canada Consumer Product Safety Act, Phthalate Regulations, SOR/2016-188

Test Method: Analyzed by Gas Chromatography-Mass Spectrometer.

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I006+I007+I008	I009+I010+I011
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.005	N.D.
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-isononyl phthalate (DINP)	0.1	N.D.	N.D.
Di-isodecyl phthalate (DIDP)	0.1	N.D.	N.D.
Di-n-octyl phthalate (DNOP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I012+I013+I014	I015+I016+I035
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.007	0.006
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-isononyl phthalate (DINP)	0.1	N.D.	N.D.
Di-isodecyl phthalate (DIDP)	0.1	N.D.	N.D.
Di-n-octyl phthalate (DNOP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

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Analyte	Requirement (%, w/w)	Result (%, w/w)	
		Test Item(s)	
		I017+I018+I019	I020+I021+I022
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.005	0.007
Dibutyl phthalate (DBP)	0.1	N.D.	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.	N.D.
Di-isononyl phthalate (DINP)	0.1	N.D.	N.D.
Di-isodecyl phthalate (DIDP)	0.1	N.D.	N.D.
Di-n-octyl phthalate (DNOP)	0.1	N.D.	N.D.
Conclusion	--	PASS	PASS

Analyte	Requirement (%, w/w)	Result (%, w/w)
		Test Item(s)
		I023+I024+I025
Di-(2-ethylhexyl) phthalate (DEHP)	0.1	0.009
Dibutyl phthalate (DBP)	0.1	N.D.
Benzylbutyl phthalate (BBP)	0.1	N.D.
Di-isononyl phthalate (DINP)	0.1	N.D.
Di-isodecyl phthalate (DIDP)	0.1	N.D.
Di-n-octyl phthalate (DNOP)	0.1	N.D.
Conclusion	--	PASS

Note: N.D. = Not detected(<MDL)

MDL= Detection Limit: 0.005%

mg/kg = milligram per kilogram = ppm = part per million

10 000 mg/kg = 1 %

Results shown are of the total weight of mixed samples.

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32. Migration of Certain Elements - EN 71-3:2019+A2:2024 , Safety of toys

Test Method: EN 71-3:2019+A2:2024

Analyte	Unit	Requirement	MDL	Result			
		Category III		Test Item(s)			
				I001	I002	I003	I004
Aluminium (Al)	mg/kg	28130	5	11	20	10	49
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	8	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	6	N.D.	626
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	6	N.D.	23
Conclusion				PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result			
		Category III		Test Item(s)			
				I005	I017	I018	I019
Aluminium (Al)	mg/kg	28130	5	75	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	23	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	15	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	31	5	N.D.	17
Conclusion				PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result			
		Category III		Test Item(s)			
				I020	I021	I022	I023
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	183
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	28
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	6
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	5
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	10
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	56
Conclusion				PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result		
		Category III		Test Item(s)		
				I024	I025	I034
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	23
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	8
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	337
Conclusion				PASS	PASS	PASS

Note: N.D.= Not Detected(<MDL)
mg/kg = milligram per kilogram = ppm = part per million
MDL= Detection Limit

Remark: Organic tin test were conducted when soluble tin were determined. Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+A1:2021. Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation.

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33. Migration of Certain Elements - BS EN 71-3:2019+A2:2024 , Safety of toys

Test Method: BS EN 71-3:2019+A2:2024

Analyte	Unit	Requirement	MDL	Result			
		Category III		Test Item(s)			
				I001	I002	I003	I004
Aluminium (Al)	mg/kg	28130	5	11	20	10	49
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	8	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	6	N.D.	626
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	6	N.D.	23
Conclusion				PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result			
		Category III		Test Item(s)			
				I005	I017	I018	I019
Aluminium (Al)	mg/kg	28130	5	75	N.D.	N.D.	N.D.
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	23	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	15	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	31	5	N.D.	17
Conclusion				PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result			
		Category III		Test Item(s)			
				I020	I021	I022	I023
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	N.D.	183
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.	28
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.	6
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.	5
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.	10
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	N.D.	N.D.
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	N.D.	56
Conclusion				PASS	PASS	PASS	PASS

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Analyte	Unit	Requirement	MDL	Result		
		Category III		Test Item(s)		
				I024	I025	I034
Aluminium (Al)	mg/kg	28130	5	N.D.	N.D.	23
Antimony (Sb)	mg/kg	560	5	N.D.	N.D.	N.D.
Arsenic (As)	mg/kg	47	5	N.D.	N.D.	N.D.
Barium (Ba)	mg/kg	18750	5	N.D.	N.D.	N.D.
Boron (B)	mg/kg	15000	5	N.D.	N.D.	N.D.
Cadmium (Cd)	mg/kg	17	5	N.D.	N.D.	N.D.
Chromium III (Cr III)	mg/kg	460	0.2	N.D.	N.D.	N.D.
Chromium VI (Cr VI)	mg/kg	0.053	0.050	N.D.	N.D.	N.D.
Cobalt (Co)	mg/kg	130	5	N.D.	N.D.	N.D.
Copper (Cu)	mg/kg	7700	5	N.D.	N.D.	N.D.
Lead (Pb)	mg/kg	23	5	N.D.	N.D.	N.D.
Manganese (Mn)	mg/kg	15000	5	N.D.	N.D.	N.D.
Mercury (Hg)	mg/kg	94	5	N.D.	N.D.	N.D.
Nickel (Ni)	mg/kg	930	5	N.D.	N.D.	8
Selenium (Se)	mg/kg	460	5	N.D.	N.D.	N.D.
Strontium (Sr)	mg/kg	56000	5	N.D.	N.D.	N.D.
Tin (Sn)	mg/kg	180000	5	N.D.	N.D.	N.D.
Organic tin	mg/kg	12	2.5	N.D.	N.D.	N.D.
Zinc (Zn)	mg/kg	46000	5	N.D.	N.D.	337
Conclusion				PASS	PASS	PASS

Note: N.D.= Not Detected(<MDL)
mg/kg = milligram per kilogram = ppm = part per million
MDL= Detection Limit

Remark: Organic tin test were conducted when soluble tin were determined. Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+A1:2021. Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation.

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34. Migration of Certain Elements -AS/NZS ISO 8124.3-2021+Amd 1:2023, Australian / New Zealand Standard for "Safety of toys"

Test Method: AS/NZS ISO 8124.3-2021+Amd 1:2023,analyzed by ICP-OES

Analyte	MDL	Result (mg/kg)				Requirement (mg/kg)
		Test Item(s)				
		I001	I002	I003	I004	
Arsenic (As)	5	N.D.	N.D.	N.D.	N.D.	25
Barium (Ba)	5	N.D.	6	N.D.	N.D.	1000
Cadmium (Cd)	5	N.D.	N.D.	N.D.	N.D.	75
Chromium (Cr)	5	N.D.	N.D.	N.D.	N.D.	60
Mercury (Hg)	5	N.D.	N.D.	N.D.	N.D.	60
Lead (Pb)	5	N.D.	N.D.	N.D.	N.D.	90
Antimony (Sb)	5	N.D.	N.D.	N.D.	N.D.	60
Selenium (Se)	5	N.D.	N.D.	N.D.	N.D.	500
Conclusion	--	PASS	PASS	PASS	PASS	--

Analyte	MDL	Result (mg/kg)				Requirement (mg/kg)
		Test Item(s)				
		I005	I017	I018	I019	
Arsenic (As)	5	N.D.	N.D.	N.D.	N.D.	25
Barium (Ba)	5	16	N.D.	N.D.	N.D.	1000
Cadmium (Cd)	5	N.D.	N.D.	N.D.	N.D.	75
Chromium (Cr)	5	N.D.	N.D.	N.D.	N.D.	60
Mercury (Hg)	5	N.D.	N.D.	N.D.	N.D.	60
Lead (Pb)	5	N.D.	N.D.	N.D.	N.D.	90
Antimony (Sb)	5	N.D.	N.D.	N.D.	N.D.	60
Selenium (Se)	5	N.D.	N.D.	N.D.	N.D.	500
Conclusion	--	PASS	PASS	PASS	PASS	--

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Analyte	MDL	Result (mg/kg)				Requirement (mg/kg)
		Test Item(s)				
		I020	I021	I022	I023	
Arsenic (As)	5	N.D.	N.D.	N.D.	N.D.	25
Barium (Ba)	5	N.D.	N.D.	N.D.	20	1000
Cadmium (Cd)	5	N.D.	N.D.	N.D.	N.D.	75
Chromium (Cr)	5	N.D.	N.D.	N.D.	N.D.	60
Mercury (Hg)	5	N.D.	N.D.	N.D.	N.D.	60
Lead (Pb)	5	N.D.	N.D.	N.D.	N.D.	90
Antimony (Sb)	5	N.D.	N.D.	N.D.	N.D.	60
Selenium (Se)	5	N.D.	N.D.	N.D.	N.D.	500
Conclusion	--	PASS	PASS	PASS	PASS	--

Analyte	MDL	Result (mg/kg)			Requirement (mg/kg)
		Test Item(s)			
		I024	I025	I034	
Arsenic (As)	5	N.D.	N.D.	N.D.	25
Barium (Ba)	5	N.D.	N.D.	N.D.	1000
Cadmium (Cd)	5	N.D.	N.D.	N.D.	75
Chromium (Cr)	5	N.D.	N.D.	N.D.	60
Mercury (Hg)	5	N.D.	N.D.	N.D.	60
Lead (Pb)	5	N.D.	N.D.	N.D.	90
Antimony (Sb)	5	N.D.	N.D.	N.D.	60
Selenium (Se)	5	N.D.	N.D.	N.D.	500
Conclusion	--	PASS	PASS	PASS	--

Note: N.D.= Not Detected(<MDL)
 mg/kg = milligram per kilogram = ppm = part per million
 MDL= Detection Limit

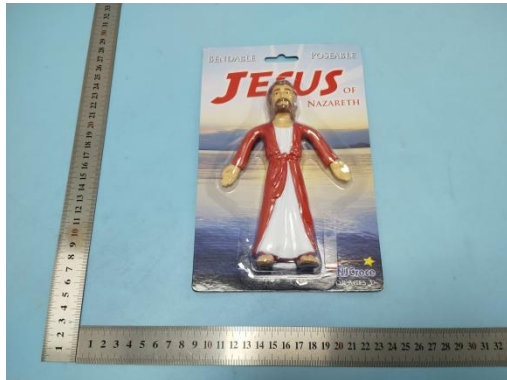
Disclaimer Measurement Uncertainty:

Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL.

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Samples photograph



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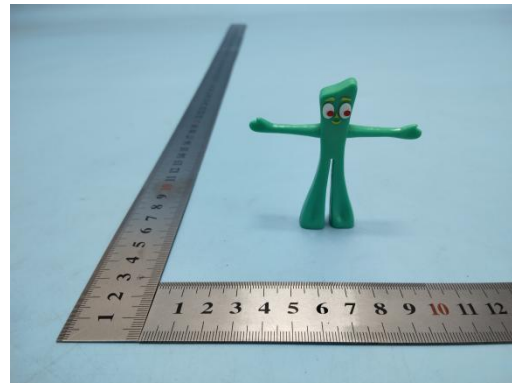
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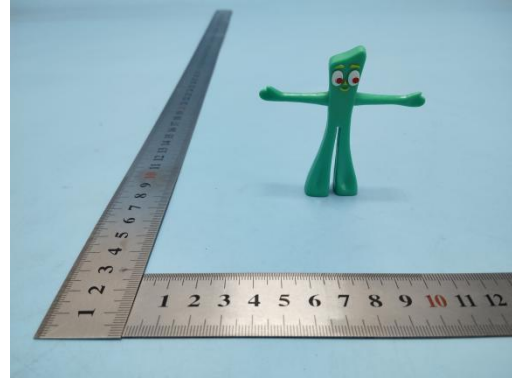
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NBTS authenticate the photograph on original report only

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