

## TEST REPORT

**APPLICANT** : **WIGGLES 3D, INC.**

**ADDRESS** : 1124 GAINSBOROUGH ROAD, LONDON ON N6H 5N1, CANADA

**SAMPLE DESCRIPTION** : EYE KNOW

**STYLE / ITEM NO.** : N/A

**MANUFACTURER** : TAI FAT BAKELITE IND. LTD.

**COUNTRY OF ORIGIN** : CHINA

**COUNTRY OF DESTINATION** : US

**AGE REQUESTED ON APPLICATION FORM** : 12+

**LABELED AGE GRADE** : AGES 12+

**AGE GRADE APPLIED IN TESTING** : OVER 8 YEARS

**SAMPLE RECEIVED DATE** : JUN. 29, 2015; JUL. 13, 2015

**TEST PERIOD** : JUL. 01, 2015 TO JUL. 15, 2015

**RESULT SUMMARY** : PLEASE REFER TO NEXT PAGE(S)

\*\*\*\*\*FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S)\*\*\*\*\*

SIGNED FOR AND ON BEHALF OF  
EUROFINS TESTING TECHNOLOGY (SHENZHEN) CO. LTD.



Harry Chen  
Assistant Lab Manager



Coco Luo  
Assistant Lab Manager



Lydia Wang  
Lab Manager



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**RESULT SUMMARY**

<b>TEST(S) REQUESTED BY APPLICANT:</b>	<b>RESULT</b>
- EN 71 – 1: 2014 Mechanical and physical properties	PASS
- EN 71 – 2: 2011 + A1: 2014 Flammability	PASS
- EN 71 – 3: 2013 + A1: 2014 Migration of Certain Elements	PASS
- Total Cadmium Content according to Entry 23 of Annex XVII to Regulation (EC) No 1907/2006 and its amendments Regulation (EC) No 552/2009, (EU) No 494/2011 and (EU) No 835/2012.	PASS
- Phthalates according to Entry 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).	PASS
- Packaging Waste according to 94/62/EC and its amendments.	PASS
- In accordance with ASTM F963-11 Standard Consumer Safety Specification for Toy Safety:	-
Physical and Mechanical Test	PASS
Flammability Test	PASS
Total Lead Content and Migration of Certain Elements Test	PASS
- Total Lead Content according to US Consumer Product Safety Improvement Act 2008 (CPSIA).	PASS
- Phthalates according to US Consumer Product Safety Improvement Act 2008 (CPSIA).	PASS
- Phthalates according to US California Proposition 65 and Assembly Bill AB 1108.	PASS
- Packaging Waste according to the United States Toxics in Packaging Clearinghouse (TPCH) Model Toxics in Packaging Legislation in 1992, originally drafted by the Source Reduction Council of CONEG in 1989.	PASS
- Canada Consumer Product Safety Act S.C.2010, c. 21 Schedule 2 & Toys Regulations SOR/2011-17: <ul style="list-style-type: none"> <li>- Physical and Mechanical Tests</li> <li>- Flammability Tests</li> </ul>	PASS
- Canada Consumer Product Safety Act - Toys Regulations SOR/2011-17 Section 23: <ul style="list-style-type: none"> <li>- Specific substances in surface coatings</li> </ul>	PASS

\*\*\*TO BE CONTINUED\*\*\*

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**Material list**

Testing material No.	Component	Material	Colour
1a	Printing on of box	Printing	Multicolor
1b	Substrate of box	Paper	White and grey
2a	Printing on cards	Printing	Multicolor
2b	Substrate of cards	Paper	White
3a	Printing on playing board	Printing	Multicolor
3b	Substrate of playing board	Paper	Black and grey
4	Sticker	Paper/plastic/glue/ printing	White/transparent/multicolor
5	Dice	Plastic	White
6	Tray	Plastic	Black
7	Bag of dice	Plastic	Transparent
8	Bag of cards	Plastic	Transparent
9	Bag of playing board	Plastic/coating	Transparent/black
10	Paper card	Paper/printing	White/multicolor
11	Sticker on box	Paper/glue/printing	White/transparent/golden and white
12	Instruction	Paper	White and black

\*\*\*TO BE CONTINUED\*\*\*

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**EN 71 – 1: 2014 Safety of Toys - Mechanical and physical properties**

Clause	Requirement	Result
<b>4</b>	<b>General requirements</b>	
4.1	Material cleanliness	P
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	P
4.8	Points and metallic wires	P
4.9	Protruding parts	N/A
4.10.1	Folding and sliding mechanisms	N/A
4.10.2	Driving mechanisms	N/A
4.10.3	Hinges	N/A
4.10.4	Springs	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
4.14.1	Toys which a child can enter	N/A
4.14.2	Masks and helmets	N/A
4.15.1	Toys propelled by a child or by other means	N/A
4.15.2	Toy bicycles	N/A
4.15.3	Rocking horses and similar toys	N/A
4.15.4	Toys not propelled by a child	N/A
4.15.5	Toy scooters	N/A

\*\*\*TO BE CONTINUED\*\*\*

Clause	Requirement	Result
4.16	Heavy immobile toys	N/A
4.17.1	Projectiles general	N/A
4.17.2	Projectile toys without stored energy	N/A
4.17.3	Projectile toys with stored energy	N/A
4.17.4	Bows and arrows	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
4.23.1	Magnets general	N/A
4.23.2	Toys other than magnetic/electrical experimental sets intended for children over 8 years	N/A
4.23.3	Magnetic/electrical experimental sets intended for children over 8 years	N/A
4.24	Yo-yo balls	N/A
4.25	Toys attached to food	N/A
<b>5</b>	<b>Toy intended for children under 36 months</b>	
5.1	General requirements	N/A
5.2	Soft-filled toys and soft-filled parts of a 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

\*\*\*TO BE CONTINUED\*\*\*

Clause	Requirement	Result
5.9	Toys comprising monofilament fibres	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
<b>6</b>	<b>Packaging</b>	<b>P</b>
<b>7</b>	<b>Warnings, markings and instructions for use (Note: It is drawn to your attention that the warnings, precautions and instructions for use should be given in the national language(s) of the country where the product is sold. Only English was reviewed)</b>	
7.1	General	P
7.2	Toys not intended for children under 36 months	N/A
7.3	Latex balloons	N/A
7.4	Aquatic toys	N/A
7.5	Functional toys	N/A
7.6	Hazardous sharp functional edges and points	N/A
7.7.1	Toys with projectiles which are able to discharge an object other than that provided with the toy	N/A
7.7.2	Toys capable of discharging a projectile with a kinetic energy greater than 0.08 J	N/A
7.8	Imitation protective masks and helmets	N/A
7.9	Toy kites	N/A
7.10.1	Roller skates, inline skates and skateboards	N/A
7.10.2	Ride-on toys without a braking device	N/A
7.10.3	Electrically-driven ride-on toys	N/A
7.10.4	Instructions for use	N/A
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	N/A

\*\*\*TO BE CONTINUED\*\*\*

Clause	Requirement	Result
7.12	Liquid-filled teethers	N/A
7.13	Percussion caps specifically designed for use in toys	N/A
7.14	Acoustics	N/A
7.15	Toy bicycles	N/A
7.16	Toys intended to bear the mass of a child	N/A
7.17	Toys comprising monofilament fibres	N/A
7.18	Toy Scooters	N/A
7.19	Rocking horses and similar toys	N/A
7.20	Magnetic/electrical experimental sets	N/A
7.21	Toys with electrical cables exceeding 300 mm in length	N/A
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	N/A

Note: P = Pass N/A = Not Applicable

The Toys Safety Directive 2009/48/EC contains marking and labeling requirements with respect to CE marking, importer's & manufacturer's name and address, product identification and washing instruction of the toy. These are not part of the EN 71 requirements but are legally required:

Markings and information required by Directive 2009/48/EC		Location	Result
1	CE mark	Packaging	Present
2	Importer's name and address	None	Absent(*)
	Manufacturer's name and address	None	Absent(*)
3	Product identification	Product	Present
4	Washing/Cleaning instruction	/	Not Applicable

\*\*\*TO BE CONTINUED\*\*\*

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Remark:

\*. The applicant has confirmed that the name or registered trade name or registered trade mark and address of importer and manufacturer will be visibly, legibly and indelibly affixed to the toy or its packaging(as appropriate).

**EN 71 - 2: 2011 + A1: 2014 Safety of Toys – Flammability**

Clause	Requirement	Result
<b>4</b>	<b>Requirements</b>	
4.1	General requirements	P
4.2	Toys to be worn on the head	
4.2.2	Beards, moustaches, wigs etc., made from hair, pile or material with similar features(e.g. free hanging ribbons, paper, cloth strands or other flowing elements), which protrude 50 mm or more from the surface of the toy	N/A
4.2.3	Beards, moustaches, wigs etc., made from hair, pile or material with similar features(e.g. free hanging ribbons, paper, cloth strands or other flowing elements), which protrude less than 50 mm from the surface of the toy	N/A
4.2.4	Full or partial moulded head masks	N/A
4.2.5	Flowing elements of toys to be worn on the head(except those covered by 4.2.2 and 4.2.3), hoods, head-dresses etc. and masks not covered by 4.2.4 which partially or fully cover the head(e.g. fabric and cardboard masks, eye masks, face masks), but excluding those items covered by 4.3	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: P = Pass    N/A = Not Applicable

\*\*\*TO BE CONTINUED\*\*\*

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**EN 71-3:2013 + A1: 2014 - Migration of Certain Elements**

Test method : With reference to EN 71-3: Migration of certain elements.  
 General Elements analysis was performed by ICP-MS.  
 Soluble Chromium(VI) analysis was performed by HPLC-ICP-MS.  
 Soluble Organic Tin analysis was performed by GC-MS.

Element	Limit(mg/kg) Category III	MDL (mg/kg)	Material Test Result (mg/kg)				
			1(a+b)	2(a+b)	3(a+b)	4	5
Soluble Aluminium (Al)	70000	10	26	12	301	73	N.D.
Soluble Antimony (Sb)	560	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Arsenic (As)	47	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Barium (Ba)	18750	10	N.D.	N.D.	12	N.D.	62
Soluble Boron (B)	15000	10	10	N.D.	N.D.	N.D.	N.D.
Soluble Cadmium (Cd)	17	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Chromium III (Cr III)	460	5	N.D. <sup>Δ</sup>	N.D.	N.D. <sup>Δ</sup>	N.D.	N.D.
Soluble Chromium VI (Cr VI)	0.2	0.2	N.D. <sup>Δ</sup>	N.D.	N.D. <sup>Δ</sup>	N.D.	N.D.
Soluble Cobalt (Co)	130	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Copper(Cu)	7700	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Lead (Pb)	160	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Manganese (Mn)	15000	10	18	N.D.	28	N.D.	N.D.
Soluble Mercury (Hg)	94	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Nickel (Ni)	930	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Selenium (Se)	460	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Strontium (Sr)	56000	10	25	24	17	13	N.D.
Soluble Tin (Sn)	180000	4.9	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Organic Tin	12	0.1	-- <sup>^</sup>	-- <sup>^</sup>	-- <sup>^</sup>	-- <sup>^</sup>	-- <sup>^</sup>
Soluble Zinc (Zn)	46000	10	N.D.	N.D.	16	N.D.	21

Note: - 1 mg/kg = 1 ppm = 0.0001%

- N.D. = Not Detected

- MDL = Method Detection Limit

- Unless specified, determination of Chromium (III) and Chromium (VI) was based on elemental analysis.

- The reported soluble organic tin value was calculated by summation of the migration values of Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, Monoctyl tin, Dioctyl tin, Dipropyl tin, Diphenyl tin and Triphenyl tin.

-<sup>Δ</sup> Chromium (III) and Chromium (VI) confirmation test were performed on the tested component.

-<sup>^</sup> 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 EN71-3: 2013 + A1: 2014.

\*\*\*TO BE CONTINUED\*\*\*

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**Total Cadmium Content**

Test method : For paint or surface coating material: EPA 3051A: 2007, EPA 6010C: 2007.  
 For other material: EPA 3052: 1996, EPA 6010C: 2007.

Detection limit : 10 mg/kg

Limit : See below - according to Entry 23 of Annex XVII to Regulation (EC) No 1907/2006 and its amendments Regulation (EC) No 552/2009, (EU) No 494/2011 and (EU) No 835/2012.

Material(s)	Limit (mg/kg)
- Paints (wet state)	Not allowed
- Plastics; - Brazing fillers; - Metal parts in jewelry;	100
- Paints on a painted article; - Paints with zinc content exceeding 10% by weight of the paint; - Recovered PVC used in article marked with "Contains recovered PVC" or with the designated pictogram.	1000

Test No.	Material No.	Test result (mg/kg)
Cd-1	1a	N.D.
Cd-2	2a	N.D.
Cd-3	3a	N.D.
Cd-4	4+5	N.D.

Note: - 1 mg/kg = 1 ppm = 0.0001%  
 - N.D. = Not Detected

\*\*\*TO BE CONTINUED\*\*\*

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**Phthalates (REACH)**

Test method : Extraction by organic solvent, determination by GC-MS.

Limit : See below - according to Entry 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).

Detection limit : 0.005% per substance

A: For toys and childcare articles:

Test No.			Phthalates-1	Phthalates-2
Material No.			1a+2a+3a	4+5
Parameter	CAS No.	Unit	Test result	Test result
Dibutylphthalate (DBP)	84-74-2	%	N.D.	0.008
Benzylbutylphthalate (BBP)	85-68-7	%	N.D.	N.D.
Diethylhexylphthalate (DEHP)	117-81-7	%	0.007	N.D.
Sum (DBP + BBP + DEHP)	--	%	0.007	0.008
<b>Limit (sum)</b>	--	%	0.1	0.1

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

Test No.			Phthalates-1	Phthalates-2
Material No.			1a+2a+3a	4+5
Parameter	CAS No.	Unit	Test result	Test result
Di-n-octylphthalate (DNOP)	117-84-0	%	N.D.	N.D.
Diisodecylphthalate (DIDP)	26761-40-0	%	N.D.	N.D.
Diisononylphthalate (DINP)	28553-12-0	%	N.D.	N.D.
Sum (DNOP+ DIDP+ DINP)	--	%	N.D.	N.D.
<b>Limit (sum)</b>	--	%	0.1	0.1

Note: - 1 mg/kg = 1 ppm = 0.0001%

- N.D. = Not Detected

\*\*\*TO BE CONTINUED\*\*\*

**Packaging Waste (EU)**

Test method : Lead (Pb), Cadmium (Cd), Mercury (Hg), Chromium (Cr) - according to EPA 3052: 1996; determination with ICP-OES.  
Chromium (VI) Cr(VI) - according to EPA3060A: 1996; determination with UV/VIS.

Limit : Total: 100 mg/kg – according to 94/62/EC and its amendment.

Detection limit : 10 mg/kg

Test No.	Material No.	Test result (mg/kg)				
		Pb	Cd	Cr(VI)	Hg	Total
PW-1	6	N.D.	N.D.	N.D.	N.D.	<100
PW-2	7	N.D.	N.D.	N.D.	N.D.	<100
PW-3	8	N.D.	N.D.	N.D.	N.D.	<100
PW-4	9	N.D.	N.D.	N.D.	N.D.	<100
PW-5	10	N.D.	N.D.	N.D.	N.D.	<100
PW-6	11	N.D.	N.D.	N.D.	N.D.	<100
PW-7	12	N.D.	N.D.	N.D.	N.D.	<100

Note: - 1 mg/kg = 1 ppm = 0.0001%  
- N.D. = Not Detected

\*\*\*TO BE CONTINUED\*\*\*

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**ASTM F963-11, Standard Consumer Safety Specification for Toy Safety**

Section	Requirement	Result
4	Safety Requirements	
4.1	Material Quality	P
4.2	Flammability	P
4.3	Toxicology	
4.3.1	Hazardous Substances	N/A
4.3.2	Manufacturing and Packaging of Food	N/A
4.3.3	Indirect Food Additives	N/A
4.3.4	Cosmetics	N/A
4.3.5	Total Lead Content and Migration of Certain Elements (See data table for detailed results.)	P
4.3.6	Cosmetics, Liquids, Pastes, Putties, Gels, and Powders	N/A
4.3.7	Stuffing Materials(Visual Inspection)	N/A
4.3.8	DEHP(DOP)	N/A
4.4	Electrical/Thermal Energy	N/A
4.5	Sound-Producing Toys	N/A
4.6	Small Objects	N/A
4.7	Accessible Edges	P
4.8	Projections	N/A
4.9	Accessible Points	P
4.10	Wires or Rods	N/A
4.11	Nails and Fasteners	N/A
4.12	Plastic Film	P
4.13	Folding Mechanisms and Hings	
4.13.1	Folding Mechanisms	N/A
4.13.2	Hing-Line Clearance	N/A
4.14	Cords, Straps, and Elastics	
4.14.1	Cords, Straps, and Elastics in Toys	N/A
4.14.2	Self Retracting Pull Cords	N/A

\*\*\*TO BE CONTINUED\*\*\*

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Section	Requirement	Result
4.14.3	Pull Toys	N/A
4.14.4	Strings and Lines for Flying Devices	N/A
4.14.5	Cords on Toy Bags Intended for Children Up to 18 Months	N/A
4.15	Stability and Over-Load Requirements	
4.15.1	Stability of Ride-On Toys and Toy Seats	N/A
4.15.2	Sideways Stability Requirements	N/A
4.15.3	Fore and Aft Stability	N/A
4.15.4	Stability of Stationary Floor Toys	N/A
4.15.5	Overload Requirements for Ride-On Toys and Toy Seats	N/A
4.15.6	Wheeled Ride-On Toys	N/A
4.16	Confined Spaces	
4.16.1	Ventilation	N/A
4.16.2	Closures	N/A
4.16.3	Toys that Enclose the Head	N/A
4.17	Wheels, Tires, and Axles	N/A
4.18	Holes, Clearance, and Accessibility of Mechanisms	
4.18.1	Accessible Clearances for Moveable Segments	N/A
4.18.2	Circular Holes in Rigid Materials	N/A
4.18.3	Chains and Belts	N/A
4.18.4	Inaccessibility of Mechanisms	N/A
4.18.5	Winding Keys	N/A
4.18.6	Coil Springs	N/A
4.19	Simulated Protective Devices(such as helmets, hats, and goggles)	N/A
4.20	Pacifiers	N/A
4.20.1	Pacifiers Nitrosamine Content	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

\*\*\*TO BE CONTINUED\*\*\*

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Section	Requirement	Result
4.25.10	Battery-Powered Ride-On 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
4.29	Art Materials (Label review only)	N/A
4.29.1	Art Materials Toxic	N/A
4.30	Toy Gun Marking	N/A
4.31	Balloons	N/A
4.32	Certain Toys with Spherical Ends	N/A
4.33	Marbles	N/A
4.34	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
5	Labeling Requirements	
5.2	Age Grading Labeling	N/A
5.3	Safety Labeling Requirements	N/A
5.4	Aquatic Toys	N/A
5.5	Crib and Playpen Toys	N/A
5.6	Mobiles	N/A
5.7	Stroller and Carriage Toys	N/A
5.8	Toys Intended to be Assembled By and Adult	N/A
5.9	Simulated Protective Devices	N/A
5.10	Toys with Functional Sharp Edges or Points	N/A
5.11	Small Objects, Small Balls, Marbles, and Balloons	N/A
5.12	Toy Caps	N/A

\*\*\*TO BE CONTINUED\*\*\*

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Section	Requirement	Result
5.13	Art Materials	N/A
5.14	Electric Toys	N/A
5.15	Battery-Operated Toys	N/A
5.16	Promotional Materials	P
5.17	Magnets	N/A
6	Instructional Literature	
6.1	Definition and Description	P
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4	Toys Intended to be Assembled By a Adult	N/A
6.5	Battery-Operated Toys	N/A
6.6	Toys in Contact with Food	N/A
7	Producer's Markings	
7.1	Producer's Markings	P
7.2	Battery-Powered Ride-on Toys	N/A
8	Test methods	
8.5	Normal Use Testing	P
8.7.1	Drop Test	N/A
8.7.2	Tip over Test for Large, Bulky Toys	N/A
8.7.3	Tumble Test for Wheeled Toys	N/A
8.7.4	Impact Test for Toys that Cover the Face	N/A
8.8	Torque Tests for Removal of Components	N/A
8.9	Tension Test for Removed of Components	N/A
8.9.1	Tension Test for Seams in Stuffed Toys and Beanbag Type Toys	N/A
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	N/A
8.13	Test for Mouth-Actuated Toys	N/A

Note: P = Pass N/A = Not Applicable

\*\*\*TO BE CONTINUED\*\*\*

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**ASTM F963-11 4.3.5.1(1), Total Lead Content in Paint and Similar Surface-coating Materials**

Test method : CPSC-CH-E1003-09.1  
 The sample was digested with acid. Then the lead content was determined by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).

Limit : 90 mg/kg – according to ASTM F963-11 Standard Consumer Safety Specification for Toy Safety.

Detection Limit : 10 mg/kg

Test No.	Material No.	Test result (mg/kg)
Pb-1	1a	N.D.
Pb-2	2a	N.D.
Pb-3	3a	N.D.

**ASTM F963-11 4.3.5.2(2)(a), Total Lead Content in Accessible Component Parts**

Test method : CPSC-CH-E1002-08.3  
 The sample was digested with acid. Then the lead content was determined by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).

Limit : 100 mg/kg – according to ASTM F963-11 Standard Consumer Safety Specification for Toy Safety.

Detection Limit : 10 mg/kg

Test No.	Material No.	Test result (mg/kg)
Pb-4	4+5	N.D.

Note: - 1 mg/kg = 1 ppm = 0.0001%  
 - N.D. = Not Detected

\*\*\*TO BE CONTINUED\*\*\*

**ASTM F963-11 4.3.5.2(2)(b), Migration of Certain Elements in Accessible Component Parts**

Test method : As per ASTM F963-11, soluble toxic element contents are determined by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).

Detection limit : 2.5 mg/kg for each of the 8 soluble toxic elements

Test No.	Material No.	Testing element							
		As	Ba	Cd	Cr	Hg	Pb	Sb	Se
		Limit (mg/kg)							
		25	1000	75	60	60	90	60	500
Test result (mg/kg)									
1	1(a+b)	N.D.	5.0	N.D.	3.5	N.D.	N.D.	N.D.	N.D.
2	2(a+b)	N.D.	4.5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
3	3(a+b)	N.D.	12	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
4	4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
5	5	N.D.	62	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

Note: - 1 mg/kg = 1 ppm = 0.0001%

- N.D. = Not Detected

**Total Lead Content(CPSIA)**

Test method : CPSC-CH-E1002-08.3; CPSC-CH-E1003-09.1  
The sample was digested with acid. Then the lead content was determined by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).

Limit : For surface coating materials: 90 ppm  
For non-surface coating (substrate): 100 ppm  
- according to US Consumer Product Safety Improvement Act 2008 (CPSIA Sec.101).

Detection limit : 10 ppm

Test No.	Material No.	Test result (ppm)
Pb-1	1a	N.D.
Pb-2	2a	N.D.
Pb-3	3a	N.D.
Pb-4	4+5	N.D.

Note: - 1 mg/kg = 1 ppm = 0.0001%

- N.D. = Not Detected

\*\*\*TO BE CONTINUED\*\*\*

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**Phthalates(CPSIA)**

Test method : CPSIA Sec.108, CPSC-CH-C1001-09.3.

Limit : 0.1% per substance - according to US Consumer Product Safety Improvement Act 2008 (CPSIA).

Detection limit : 0.005% per substance

A: For toys and childcare articles:

Test No.			Phthalates-1	Phthalates-2
Material No.			1a+2a+3a	4+5
Parameter	CAS No.	Unit	Test result	Test result
Dibutylphthalate (DBP)	84-74-2	%	N.D.	0.008
Benzylbutylphthalate (BBP)	85-68-7	%	N.D.	N.D.
Diethylhexylphthalate (DEHP)	117-81-7	%	0.007	N.D.

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

Test No.			Phthalates-1	Phthalates-2
Material No.			1a+2a+3a	4+5
Parameter	CAS No.	Unit	Test result	Test result
Di-n-octylphthalate (DNOP)	117-84-0	%	N.D.	N.D.
Diisodecylphthalate (DIDP)	26761-40-0	%	N.D.	N.D.
Diisononylphthalate (DINP)	28553-12-0	%	N.D.	N.D.

Note: - 1 mg/kg = 1 ppm = 0.0001%

- N.D. = Not Detected

\*\*\*TO BE CONTINUED\*\*\*

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**Phthalates(California Proposition 65)**

Test method : CPSIA Sec.108, CPSC-CH-C1001-09.3.

Limit : See below - US California Proposition 65 and Assembly Bill AB 1108.

Detection Limit : 0.005 % per substance

Test No.			Phthalates-1	Phthalates-2
Material No.			1a+2a+3a	4+5
Parameter	CAS No.	Unit	Test result	Test result
Dibutylphthalate (DBP)	84-74-2	%	N.D.	0.008
Benzylbutylphthalate (BBP)	85-68-7	%	N.D.	N.D.
Diethylhexylphthalate (DEHP)	117-81-7	%	0.007	N.D.
Di-n-octylphthalate (DNOP)	117-84-0	%	N.D.	N.D.
Diisodecylphthalate (DIDP)	26761-40-0	%	N.D.	N.D.
Diisononylphthalate (DINP)	28553-12-0	%	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	N.D.	N.D.

**Requirements:**

Ordinance	Parameter	Maximum Allowable Limit
Proposition 65	Dibutylphthalate (DBP)	0.1%
	Benzylbutylphthalate (BBP)	0.1%
	Diethylhexylphthalate (DEHP)	0.1%
	Diisodecylphthalate (DIDP)	0.1%
	Di-n-hexyl phthalate (DnHP)	0.1%
	Diisononylphthalate (DINP)	0.1%

Ordinance	Parameter	Maximum Allowable Limit
Assembly Bill No. 1108 Chapter 672	For toys and Childcare articles:	
	Dibutylphthalate (DBP)	0.1%
	Benzylbutylphthalate (BBP)	0.1%
	Diethylhexylphthalate (DEHP)	0.1%
	For toys and Childcare articles intended for use by a child under three years of age if that product can be placed in the child's mouth:	
	Di-n-octylphthalate (DNOP)	0.1%
	Diisodecylphthalate (DIDP)	0.1%
	Diisononylphthalate (DINP)	0.1%

Note: - 1 mg/kg = 1 ppm = 0.0001%

- N.D. = Not Detected

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**Packaging Waste (US)**

- Test method : Lead (Pb), Cadmium (Cd), Mercury (Hg), Chromium (Cr) - according to EPA3052: 1996; determination with ICP-OES.  
 Chromium (VI) Cr(VI) - according to EPA3060A: 1996; determination with UV/VIS.
- Limit : Total: 100 mg/kg – according to the United States Toxics in Packaging Clearinghouse (TPCH) Model Toxics in Packaging Legislation in 1992, originally drafted by the Source Reduction Council of CONEG in 1989.
- Detection limit : 10 mg/kg

Test No.	Material No.	Test result (mg/kg)				
		Pb	Cd	Cr(VI)	Hg	Total
PW-1	6	N.D.	N.D.	N.D.	N.D.	<100
PW-2	7	N.D.	N.D.	N.D.	N.D.	<100
PW-3	8	N.D.	N.D.	N.D.	N.D.	<100
PW-4	9	N.D.	N.D.	N.D.	N.D.	<100
PW-5	10	N.D.	N.D.	N.D.	N.D.	<100
PW-6	11	N.D.	N.D.	N.D.	N.D.	<100
PW-7	12	N.D.	N.D.	N.D.	N.D.	<100

Note: - 1 mg/kg = 1 ppm = 0.0001%  
 - N.D. = Not Detected

\*\*\*TO BE CONTINUED\*\*\*

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**Toys Regulations SOR/2011-17**

Section	Requirement	Result
4	Packaging	P
5	Electrically operated toys	N/A
6	Hand-Held electrically heated tools	N/A
7	Small objects	N/A
8	Metal edges	N/A
9	Wires	N/A
10	Plastic components or toys	P
11	Accessible wood	N/A
12	Glass	N/A
13	Fasteners	N/A
14	Folding mechanism	N/A
15	Spring-wound	N/A
16	Projectile component	N/A
17	Toy can be entered with closed lid by child	N/A
18	Stationary item intended to bear the weight of a child	N/A
19	Noise level of toys	N/A
20	Thermal toys	N/A
21	Celluloid or cellulose nitrate	P
22	Specific toxic substances	N/A
23	Specific substances in surface coatings (See data table for detailed results)	P
24	Organic solvents – balloon-blowing kits	N/A
25	General requirements	N/A
26	Corrosive substances, irritants or sensitizers	N/A
27	Specific substances in plastic materials	N/A

\*\*\*TO BE CONTINUED\*\*\*

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Section	Requirement	Result
28	Sharp edge or point	N/A
29	Stuffing materials	N/A
30	Squeaker, reed and valve or other similar device	N/A
31	Eye or nose	N/A
32	Outer covering flat or raised fibre textile material	N/A
33	Exposed surface yarn	N/A
34	Hair, or mane, or simulated hair other than yarn	N/A
35	Plant seeds - Noise	N/A
36	Plant seeds – Stuffing material	N/A
37	Pull and push toys	N/A
38	Toy steam engine boilers	N/A
39	Finger paints	N/A
40	Rattles	N/A
41	Elastic	N/A
42	Yo-Yo type balls	N/A
43	Batteries	N/A

Note: P = Pass N/A = Not Applicable

\*\*\*TO BE CONTINUED\*\*\*

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**S.C. 2010, c.21 Canada Consumer Product Safety Act – Schedule 2**

Section	Requirement	Result
1	Jequirity beans	P
2	Cellulose nitrate	P
3	Baby walkers	N/A
5	Feeding bottles	N/A
8	Kites	N/A
9	Kite strings	N/A
14	Lawn, darts with elongated tips	N/A

Note: P = Pass N/A = Not Applicable

\*\*\*TO BE CONTINUED\*\*\*

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**Toys Regulations SOR/2011-17 Section 23**
**Total Lead Content**

Test method : Canada Product Safety Laboratory Book 5: Laboratory Policies and Procedures, Part B: Test Methods Section, Method C-02.  
 Limit : 90 mg/kg – according to Canada Consumer Product Safety Act - Toys Regulations SOR/2011-17 Section 23.  
 Detection Limit : 10 mg/kg

Test No.	Material No.	Test result (mg/kg)
Pb-1	1a	N.D.
Pb-2	2a	N.D.
Pb-3	3a	N.D.

Note: - 1 mg/kg = 1 ppm = 0.0001%  
 - N.D. = Not Detected

**Total Mercury Content**

Test method : Canada Product Safety Laboratory Book 5: Laboratory Policies and Procedures, Part B: Test Methods Section, Method C-07.  
 Limit : N.D. – according to according to Canada Consumer Product Safety Act - Toys Regulations SOR/2011-17 Section 23.  
 Detection Limit : 10 mg/kg

Test No.	Material No.	Test result (mg/kg)
Hg-1	1a	N.D.
Hg-2	2a	N.D.
Hg-3	3a	N.D.

Note: - 1 mg/kg = 1 ppm = 0.0001%  
 - N.D. = Not Detected

\*\*\*TO BE CONTINUED\*\*\*

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**Leachable Heavy Metal contents**

Test method : Canada Product Safety Laboratory Book 5: Laboratory Policies and Procedures, Part B: Test Methods Section, Method C-03.  
Leachable heavy metal contents are determined by Inductively Coupled Plasma Optical Emission Spectrometry (ICP-OES).

Detection limit : 10 mg/kg for each element

Test No.	Material No.	Testing element				
		As	Ba	Cd	Sb	Se
		Limit [mg/kg]				
		1000	1000	1000	1000	1000
1	1a	N.D.	N.D.	N.D.	N.D.	N.D.
2	2a	N.D.	N.D.	N.D.	N.D.	N.D.
3	3a	N.D.	N.D.	N.D.	N.D.	N.D.

Note: - 1 mg/kg = 1 ppm = 0.0001%  
- N.D. = Not Detected

**Other Information / Remark:**

N/A

\*\*\*TO BE CONTINUED\*\*\*

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**Photo Attachment**

**EYE KNOW**



\*\*\*END OF THE REPORT\*\*\*