

TEST REPORT

APPLICANT : GREENBRIER GAMES
ADDRESS : MARLBOROUGH, MA 01752
SAMPLE DESCRIPTION : BARBEARIANS
STYLE / ITEM NO. : N/A
MANUFACTURER : TAI FAT
COUNTRY OF ORIGIN : CHINA
COUNTRY OF DESTINATION : US, EU
AGE REQUESTED ON APPLICATION FORM : 8+
LABELED AGE GRADE : AGE 8+
AGE GRADE APPLIED IN TESTING : OVER 8 YEARS
SAMPLE RECEIVED DATE : MAY 30, 2018
TEST PERIOD : MAY 30, 2018 TO JUN. 05, 2018
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.



Jamie Zhang
Toy Testing Supervisor



Harry Chen
Lab & Technical Support
Manager



Coco Luo
Lab & Reporting Manager



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This test report does not entitle to carry any safety mark on this or similar products.

RESULT SUMMARY

TEST(S) REQUESTED BY APPLICANT:	RESULT
- EN 71 – 1: 2014 Mechanical and physical properties	PASS
- EN 71 – 2: 2011 + A1: 2014 Flammability	PASS
- EN 71 - 3: 2013 + A2: 2017 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, (EU) No 835/2012 and (EU) No 2016/217.	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 F963-17 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
- Consumer Product Safety Commission 16 CFR CH. II:	-
- Physical and Mechanical Test	PASS
- 16 CFR 1500.44 Flammability test	PASS
- Total Lead Content according to US 16 CFR Part 1303.	PASS
- Total Lead Content according to US Consumer Product Safety Improvement Act 2008 (CPSIA).	PASS
- Total Lead Content according to California Proposition 65, Alameda Superior Court, BG07350969 and RG08378050 / San Francisco Superior Court, 07-462991	PASS
- US 16 CFR Part 1307 for Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates.	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

TO BE CONTINUED

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Material list

Testing material No.	Component	Material	Colour
1a	Printing on box, paper card, instruction, disc and square piece	Printing	Multicolor
1b	Box	Paper	White and grey
1c	Box	Paper/glue	White/transparent
1d	Disc and square piece	Paper	White and brown
1e	Instruction	Paper	White
1f	Paper card	Paper	Off white
1g	Paper card	Paper	White and grey
2	Coating on dice	Coating	White
3	Dice	Plastic	Red
4	Dice	Plastic	Yellow
5	Dice	Plastic	Blue
6	Dice	Plastic	Green
7	Dice	Plastic	Black
8	Adhesive tape of box	Plastic/glue	Transparent
9	Polybag	Plastic	Transparent
10	Tray of box	Paper/printing	White and grey/multicolor
11	Rim of disc and square piece	Paper/printing	White and brown/multicolor

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

Clause	Requirement	Result
4	General requirements	
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

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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
5	Toy intended for children under 36 months	
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

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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
6	Packaging	P
7	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)	
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

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Clause	Requirement	Result
7.11	Toys intended to be attached to or strung across a cradle, cot, or perambulator	N/A
7.12	Liquid-filled teethingers	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	None	Absent
4	Washing/Cleaning instruction	/	Not Applicable

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Note:

1. The name or registered trade name or registered trade mark and address (single contact point, it must be highlighting if more address) of importer and manufacturer should be presented in easily legible and clearly visible on the toy itself or where that is not possible due to the size or nature of the toy, that the required information is provided on the packaging or in a document accompanying the toy;

2. The identification number (type or batch or serial or model number or other element) should be presented in easily legible and clearly visible on product itself or where that is not possible due to the size or nature of the toy, that the required information is provided on the packaging or in a document accompanying the toy.

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

Clause	Requirement	Result
4	Requirements	
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

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EN 71-3: 2013 + A2: 2017 - Migration of Certain Elements

Test method : With reference to EN 71-3: 2013 + A2: 2017: Migration of certain elements.
 General Elements analysis was performed by ICP-MS.
 Soluble Chromium(VI) analysis was performed by IC-UV-Vis.
 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)	1(a+d)	1(a+e)	1(a+f)	1(a+g)
Soluble Aluminium (Al)	70000	10	304	545	12	82	79
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.	11	N.D.	N.D.	N.D.
Soluble Boron (B)	15000	10	N.D.	34	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. ^Δ	8 ^Δ	N.D. ^Δ	N.D. ^Δ	N.D. ^Δ
Soluble Chromium VI (Cr VI)	0.2	0.2	N.D. ^Δ	N.D. ^Δ	N.D. ^Δ	N.D. ^Δ	N.D. ^Δ
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(23 [#])	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Manganese (Mn)	15000	10	18	23	N.D.	13	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	27	27	36	37	35
Soluble Tin (Sn)	180000	4.9	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Organic Tin	12	0.1	-- [^]	-- [^]	-- [^]	-- [^]	-- [^]
Soluble Zinc (Zn)	46000	10	N.D.	17	N.D.	N.D.	N.D.

Element	Limit(mg/kg) Category III	MDL (mg/kg)	Material Test Result (mg/kg)				
			2(*1) (54.2mg)	3	4	5	6
Soluble Aluminium (Al)	70000	10	57	N.D.	N.D.	N.D.	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.	N.D.	N.D.	N.D.
Soluble Boron (B)	15000	10	N.D.	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. ^Δ	N.D.	N.D.	N.D.	N.D.
Soluble Chromium VI (Cr VI)	0.2	0.2	N.D. ^Δ	N.D.	N.D.	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(23 [#])	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Manganese (Mn)	15000	10	N.D.	N.D.	N.D.	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	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Tin (Sn)	180000	4.9	5.2	N.D.	N.D.	N.D.	N.D.
Soluble Organic Tin	12	0.1	N.D.	-- [^]	-- [^]	-- [^]	-- [^]
Soluble Zinc (Zn)	46000	10	113	25	40	42	36

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Element	Limit(mg/kg) Category III	MDL (mg/kg)	Material Test Result (mg/kg)
			7
Soluble Aluminium (Al)	70000	10	N.D.
Soluble Antimony (Sb)	560	10	N.D.
Soluble Arsenic (As)	47	10	N.D.
Soluble Barium (Ba)	18750	10	N.D.
Soluble Boron (B)	15000	10	N.D.
Soluble Cadmium (Cd)	17	10	N.D.
Soluble Chromium III (Cr III)	460	5	N.D.
Soluble Chromium VI (Cr VI)	0.2	0.2	N.D.
Soluble Cobalt (Co)	130	10	N.D.
Soluble Copper(Cu)	7700	10	N.D.
Soluble Lead (Pb)	160(23 [#])	10	N.D.
Soluble Manganese (Mn)	15000	10	N.D.
Soluble Mercury (Hg)	94	10	N.D.
Soluble Nickel (Ni)	930	10	N.D.
Soluble Selenium (Se)	460	10	N.D.
Soluble Strontium (Sr)	56000	10	N.D.
Soluble Tin (Sn)	180000	4.9	N.D.
Soluble Organic Tin	12	0.1	-- [^]
Soluble Zinc (Zn)	46000	10	17

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.

-^AChromium (III) and Chromium (VI) confirmation test were performed on the tested component.

-^A 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: 2013 + A2: 2017.

Remark:

*1. The weight of sample marked (*1) available was less than 100mg, but greater than 10mg, so result was calculated as if 100mg of the sample was available.

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Total Cadmium Content

Test method : EPA 3051A: 2007, EPA 3052: 1996, EPA 6010D: 2014.
 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, (EU) No 835/2012 and (EU) No 2016/217.

Material(s)	Limit (mg/kg)
- Paints (wet state); - 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	2	N.D.
Cd-3	1c+8	N.D.
Cd-4	3+4	N.D.
Cd-5	5+6+7	N.D.

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

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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	Phthalates-3
Material No.			1a	2	1c+8
Parameter	CAS No.	Unit	Test result	Test result	Test result
Dibutylphthalate (DBP)	84-74-2	%	N.D.	N.D.	N.D.
Benzylbutylphthalate (BBP)	85-68-7	%	N.D.	N.D.	N.D.
Diethylhexylphthalate (DEHP)	117-81-7	%	N.D.	N.D.	N.D.
Sum (DBP + BBP + DEHP)	--	%	N.D.	N.D.	N.D.
Limit (sum)	--	%	0.1	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	Phthalates-3
Material No.			1a	2	1c+8
Parameter	CAS No.	Unit	Test result	Test result	Test result
Di-n-octylphthalate (DNOP)	117-84-0	%	N.D.	N.D.	N.D.
Diisodecylphthalate (DIDP)	26761-40-0	%	N.D.	N.D.	N.D.
Diisononylphthalate (DINP)	28553-12-0	%	N.D.	N.D.	N.D.
Sum (DNOP+ DIDP+ DINP)	--	%	N.D.	N.D.	N.D.
Limit (sum)	--	%	0.1	0.1	0.1

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A: For toys and childcare articles:

Test No.			Phthalates-4	Phthalates-5
Material No.			3+4	5+6+7
Parameter	CAS No.	Unit	Test result	Test result
Dibutylphthalate (DBP)	84-74-2	%	N.D.	N.D.
Benzylbutylphthalate (BBP)	85-68-7	%	N.D.	N.D.
Diethylhexylphthalate (DEHP)	117-81-7	%	N.D.	N.D.
Sum (DBP + BBP + DEHP)	--	%	N.D.	N.D.
Limit (sum)	--	%	0.1	0.1

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

Test No.			Phthalates-4	Phthalates-5
Material No.			3+4	5+6+7
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.
Limit (sum)	--	%	0.1	0.1

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

- N.D. = Not Detected

Packaging Waste (EU)

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 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	9	N.D.	N.D.	N.D.	N.D.	<100
PW-2	10	N.D.	N.D.	N.D.	N.D.	<100
PW-3	11	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 F963-17, 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 Test (See data table for detailed results.)	P
4.3.6	Cosmetics, Liquids, Pastes, Putties, Gels, Powders and Items of Avian Feather Origin	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
4.8.1	Bath Toy 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 Hinges	
4.13.1	Folding Mechanisms	N/A
4.13.2	Hinge-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

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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
4.14.6	Ride-on toys	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
4.21	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

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Section	Requirement	Result
4.25.10	Battery-Power Ride-On Toys	N/A
4.25.11	Toys that contain secondary cells or secondary batteries	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
4.30	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	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 Chest	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

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Section	Requirement	Result
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
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	Battery powered ride-on toys	N/A
6.7	Toys in contact with food	N/A
6.8	Toy chests	N/A
7	Producer's Markings	
7.1	Producer's Markings	P
7.2	Battery-Powered Ride-on Toys	N/A
7.3	Toy Chests	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

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Section	Requirement	Result
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 required, no applicable component

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ASTM F963-17 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 F963-17 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	2	N.D.

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

ASTM F963-17 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 F963-17 Standard Consumer Safety Specification for Toy Safety.

Detection Limit : 10 mg/kg

Test No.	Material No.	Test result (mg/kg)
Pb-3	1c+8	N.D.
Pb-4	3+4	N.D.
Pb-5	5+6+7	N.D.

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

TO BE CONTINUED

ASTM F963-17 4.3.5.1(2), Migration of Certain Elements in Paint and Similar Surface-coating Materials

Test method : As per ASTM F963-17, 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)										
No.1	1a	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
No.2	2(54.2mg)(*2)	N.D.	7.5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

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

- N.D. = Not Detected

ASTM F963-17 4.3.5.2(2)(b), Migration of Certain Elements in Accessible Component Parts

Test method : As per ASTM F963-17, 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)										
No.3	8(73.8mg)(*2)	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
No.4	3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
No.5	4	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
No.6	5	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
No.7	6	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
No.8	7	N.D.	4.0	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

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

- N.D. = Not Detected

Remark:

*2. The weight of sample marked (*2) available was less than 100mg, but greater than 10mg, so result was calculated as if 100mg of the sample was available.

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Consumer Product Safety Commission 16 CFR CH. II
Physical and Mechanical Test

As specified in Title 16, Code of Federal Regulation, Chapter II – Consumer Products Safety Commission of U.S.A.

-	16 CFR 1501 Small parts	N/A
As Specified in Title 16 Part 1501, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A. Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiraton, or ingestion hazards because of small parts.		
-	16 CFR 1500.48 Technical requirement for determining a sharp point	Pass
As Specified in Title 16 Part 1500.48, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A. Technical requirement for determining a sharp point in toys and other articles intended for use by children under 8 years of age. (Only test the sample as received.)		
-	16 CFR 1500.49 Technical requirement for determining a sharp metal or glass edge ...	Pass
As Specified in Title 16 Part 1500.49, Code of Federal Regulations, Chapter II – Consumer Products Safety Commission of U.S.A. Technical requirement for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age. (Only test the sample as received.)		

Note:

- N/A = Not Applicable
- As received evaluation only for above three physical tests.

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Flammability test
Flammability test on Solid

As Specified in Title 16 Part 1500.44 Code of Federal Regulation U.S.A.

Test Sample	Burning Rate (inch/sec)	Limit	Result
Board	DNI	≤0.1 inch/sec	Pass
Card 1	DNI	≤0.1 inch/sec	Pass
Card 2	DNI	≤0.1 inch/sec	Pass
Card 3	DNI	≤0.1 inch/sec	Pass
Dice	DNI	≤0.1 inch/sec	Pass

Note:

- DNI= Did not ignited
- Only applicable clause(s) was/were shown

Total Lead Content (16 CFR 1303)

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 US 16 CFR Part 1303.

Detection limit : 10 mg/kg

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

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

TO BE CONTINUED

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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	2	N.D.
Pb-3	1c+8	N.D.
Pb-4	3+4	N.D.
Pb-5	5+6+7	N.D.

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

TO BE CONTINUED

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Total Lead Content (California Proposition 65)

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 : a. PVC component: \leq 200 ppm, and
 b. Non-PVC component: \leq 600 ppm, and
 c. Baby bibs: \leq 200 ppm.
 - according to California Proposition 65, Alameda Superior Court, BG07350969 and RG08378050 / San Francisco Superior Court, 07-462991

Detection limit : 10 ppm

Test No.	Material No.	Test result (ppm)
Pb-1	1a	N.D.
Pb-2	2	N.D.
Pb-3	1c+8	N.D.
Pb-4	3+4	N.D.
Pb-5	5+6+7	N.D.

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

- N.D. = Not Detected

TO BE CONTINUED

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Phthalates(US 16 CFR Part 1307)

Test method : CPSC-CH-C1001-09.4.
 Limit : 0.1% per substance - according to US 16 CFR Part 1307 Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates
 Detection limit : 0.005% per substance

Test No.			Phthalates-1	Phthalates-2	Phthalates-3
Material No.			1a	2	1c+8
Parameter	CAS No.	Unit	Test result	Test result	Test result
Diethylhexylphthalate (DEHP)	117-81-7	%	N.D.	N.D.	N.D.
Dibutylphthalate (DBP)	84-74-2	%	N.D.	N.D.	N.D.
Benzylbutylphthalate (BBP)	85-68-7	%	N.D.	N.D.	N.D.
Diisononylphthalate (DINP)	28553-12-0	%	N.D.	N.D.	N.D.
Diisobutyl phthalate (DiBP)	84-69-5	%	N.D.	N.D.	N.D.
Di-n-pentyl phthalate (DPENP)	131-18-0	%	N.D.	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	N.D.	N.D.	N.D.
Dicyclohexyl phthalate(DCHP)	84-61-7	%	N.D.	N.D.	N.D.

Test No.			Phthalates-4	Phthalates-5
Material No.			3+4	5+6+7
Parameter	CAS No.	Unit	Test result	Test result
Diethylhexylphthalate (DEHP)	117-81-7	%	N.D.	N.D.
Dibutylphthalate (DBP)	84-74-2	%	N.D.	N.D.
Benzylbutylphthalate (BBP)	85-68-7	%	N.D.	N.D.
Diisononylphthalate (DINP)	28553-12-0	%	N.D.	N.D.
Diisobutyl phthalate (DiBP)	84-69-5	%	N.D.	N.D.
Di-n-pentyl phthalate (DPENP)	131-18-0	%	N.D.	N.D.
Di-n-hexyl phthalate (DHEXP)	84-75-3	%	N.D.	N.D.
Dicyclohexyl phthalate(DCHP)	84-61-7	%	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 : CPSC-CH-C1001-09.4.

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

Detection Limit : 0.005 % per substance

Test No.			Phthalates-1	Phthalates-2	Phthalates-3
Material No.			1a	2	1c+8
Parameter	CAS No.	Unit	Test result	Test result	Test result
Dibutylphthalate (DBP)	84-74-2	%	N.D.	N.D.	N.D.
Benzylbutylphthalate (BBP)	85-68-7	%	N.D.	N.D.	N.D.
Diethylhexylphthalate (DEHP)	117-81-7	%	N.D.	N.D.	N.D.
Di-n-octylphthalate (DNOP)	117-84-0	%	N.D.	N.D.	N.D.
Diisodecylphthalate (DIDP)	26761-40-0	%	N.D.	N.D.	N.D.
Diisononylphthalate (DINP)	28553-12-0	%	N.D.	N.D.	N.D.
Di-n-hexyl phthalate (DnHP)	84-75-3	%	N.D.	N.D.	N.D.

Test No.			Phthalates-4	Phthalates-5
Material No.			3+4	5+6+7
Parameter	CAS No.	Unit	Test result	Test result
Dibutylphthalate (DBP)	84-74-2	%	N.D.	N.D.
Benzylbutylphthalate (BBP)	85-68-7	%	N.D.	N.D.
Diethylhexylphthalate (DEHP)	117-81-7	%	N.D.	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

TO BE CONTINUED

Eurofins Testing Technology (Shenzhen) Co. Ltd.

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Packaging Waste (US)

- Test method : Lead (Pb), Cadmium (Cd), Mercury (Hg), Chromium (Cr) - according to EPA3050B: 1996 and 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	9	N.D.	N.D.	N.D.	N.D.	<100
PW-2	10	N.D.	N.D.	N.D.	N.D.	<100
PW-3	11	N.D.	N.D.	N.D.	N.D.	<100

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

BARBEARIANS



END OF THE REPORT