

CONSUMER PRODUCTS SERVICES DIVISION

MAPLE CITY RUBBER CO., INC.

Technical Report: (5118)078-0050 April 04, 2018 Date Received: March 26, 2018 PAGE 1 OF 15

MICHAEL KILBANE MAPLE CITY RUBBER CO., INC. PO BOX 587 NORWALK, OH 44857 UNITED STATES

Sample Description: LATEX BALLOONS (2 COLORS GREEN AND BLUE)

Vendor: MAPLE CITY RUBBER CO. Sample Size: N/A Manufacturer: MAPLE CITY RUBBER CO. Style No(s): SKN/SKU No.: Buyer: N/A N/A Labeled Age Grade: NOT PRESENT PO No.: N/A OVER 3 YEARS OF AGE Appropriate Age Grade: Ref#: N/A

Appropriate Age Grade: OVER 3 YEARS OF AGE RET#: N/A

Client Specified Age NOT REQUESTED Country of Origin: UNITED STATES

Grade:

Tested Age Grade: OVER 3 YEARS OF AGE Assortment No.: N/A

UPC Code: N/A

EXECUTIVE SUMMARY:

The sample(s) MEETS the following requirement(s):

- The mechanical hazards requirements of ASTM F963-17, "Standard consumer safety specification for toy safety".
- The mechanical hazards requirements of the tested sections of Canada Consumer Product Safety Act, Toys Regulations, SOR/2011-17 and Schedule 2.
- The mechanical and physical properties requirements of the tested subclauses of the European Standard, "Safety of toys", EN71: Part 1: 2014, clauses 1-6.
- The flammability requirement of solids under ASTM F963-17 section 4.2 according to Annex A5, "Flammability testing procedure for solids and soft toys.
- The cellulose nitrate requirements of Canada Toys Regulations, SOR/2011-17, section 21.
- The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2014
- The BBP, DBP & DEHP content requirements by composite testing of the Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(a) Prohibition On Sale of Certain Products Containing Specified Phthalates.
- The DNOP, DIDP & DINP content requirements by composite testing of the Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(b)(1) Prohibition On Sale of Certain Products Containing Specified Phthalates.



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The sample(s) MEETS the following requirement(s):

- The phthalates content requirements by composite testing of the Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(a) Prohibition On Sale of Certain Products Containing Specified Phthalates.
 Effective: April 25, 2018.
- The cadmium content requirement of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 23 (amended up to EU No. 2016/217).
- The total lead content in substrate requirements for items contact with mouth of the Canada Consumer Product Safety Act, Consumer Products Containing Lead (Contact with Mouth) Regulations, SOR/2010-273.
- The total lead content of 100ppm requirements by composite testing in substrate materials (Consumer Products Safety Improvement Act (CPSIA) of 2008).
- The heavy metals content analysis for heavy metals content in substrate requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b).
- The Migration of Certain Elements European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 with Latest Amendment up to European Commission Directive 2012/7/EU. "Safety of toys", EN 71: Part 3: 2013, and Amendments.

Note: The sample(s) was not evaluated to the Normal Use testing requirements specified in ASTM F963-17, Section 8.5. It is the responsibility of the manufacturer, vendor or distributor to conduct tests that will simulate normal use conditions. These tests shall ensure that hazards are not generated through normal wear and deterioration of the sample(s). These tests shall also simulate the normal play mode of the toy and to simulate the expected mode of use of the particular toy. The tests shall be conducted in an expected use environment. These normal use tests shall simulate the intended use of the toy based on its estimated lifetime.

Note: No packaging was submitted; therefore no labeling evaluations were conducted at this time.

Note: This report represents the compliance of this product to applicable, referenced regulations and standards. The information herein should not be used to make any inference or statement regarding the safety of this product (Latex balloon).

BVCPS Buffalo Contact Information for this Report:

Administrative Questions: Patti Luthringer Phone: 716-505-3478 patti.luthringer@us.bureauveritas.com

Technical Questions: Patti Luthringer Phone: 716-505-3325 patti.luthringer@us.bureauveritas.com

Phone: 716-505-3478 patti.luthringer@us.bureauveritas.com

Bureau Veritas

Consumer Products Services, Inc.

Daniel Warf

Product Test Engineer,

Toy and Juvenile Products Department



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RESULTS:

PHTHALATES CONTENT IN CHILDREN'S TOYS AND CHILDCARE ARTICLES BY COMPOSITE TESTING (Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(a) Prohibition On Sale of Certain Products Containing Specified Phthalates - BBP / DBP / DEHP CONTENT)

Test Method: With reference to U. S. CPSC-CH-C1001-09.3 (April 1, 2010).

	Sample Identity	Color / Component	Location	Style
P	4	Composite: blue and green thin plastic	Balloons	Across

Analyte:	BBP	DBP	DEHP
Limit (%):	0.1	0.1	0.1

Analyte	BBP	DBP	DEHP	Conclusion
Sample		Result (%)		Conclusion
А	LT 0.005	LT 0.005	LT 0.005	Pass

Detection Limit:

BBP= Butyl benzyl phthalate (0.005%)Results reported in percentageDBP= Dibutyl phthalate (0.005%)LT= Less thanDEHP= Di(2-ethylhexyl) phthalate (0.005%)ND= None detected

PHTHALATES CONTENT IN CHILDREN'S TOYS AND CHILDCARE ARTICLES BY COMPOSITE TESTING (Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(b)(1) Prohibition On Sale of Certain Products Containing Specified Phthalates - DNOP / DINP / DIDP CONTENT)

Test Method: With reference to U. S. CPSC-CH-C1001-09.3 (April 1, 2010).

Sample Identity	Color / Component	Location	Style
Α	Composite: blue and green thin plastic	Balloons	Across

Analyte:	DNOP	DINP	DIDP	
Limit (%):	0.1	0.1	0.1	

Analyte	DNOP	DINP	DIDP	Conclusion
Sample		Result (%)		Conclusion
А	LT 0.005	LT 0.005	LT 0.005	Pass

Detection Limit:

DNOP = Di-n-octyl phthalate (0.005%) Results reported in percentage

DINP = Di-iso-nonyl phthalate (0.005%)

LT = Less than

DIDP = Di-iso-decyl phthalate (0.005%)

ND = None detected



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PHTHALATES CONTENT IN CHILDREN'S TOYS AND CHILDCARE ARTICLES BY COMPOSITE TESTING (Consumer Product Safety Improvement Act (CPSIA) of 2008 Sec. 108(a) Prohibition On Sale of Certain Products Containing Specified Phthalates - BBP / DBP / DEHP / DIBP / DINP / DNHP / DNPP / DCHP CONTENT)

Effective: April 25, 2018

Test Method: With reference to U. S. CPSC-CH-C1001-09.3 (April 1, 2010).

	Color / Component	Location	Style
A.	Composite: blue and green thin plastic	Balloons	Across

Analyte	BBP	DBP	DIBP	DCHP	DNPP	DNHP	DEHP	DINP	
Limit (%)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	
Sample				Resu	It (%)			_	Conclusion

Detection Limit:

DIBP = Di-iso-butyl phthalate (0.005%) Results reported in percentage

DINP = Di-iso-nonyl phthalate (0.005%) LT = Less than
DCHP = Dicyclohexyl phthalate (0.005%) ND = None detected

BBP = Butyl benzyl phthalate (0.005%)

DBP = Dibutyl phthalate (0.005%)

DEHP = Di(2-ethylhexyl) phthalate (0.005%)
DNPP = Di-n-pentyl phthalate (0.005%)
DnHP = Di-n-hexyl phthalate (0.005%)

CADMIUM CONTENT (European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 23)

Cat	egory:			Plast	ics
Eler	ment:			Cadm	ium
Tes	t Method:			In house acid	d digestion
Max	kimum Allowable Limit:			100 mg/kg (0.01	% by weight)
	Tes	t Component		Result	Conclusion
	Colour/Component	Location	Style	(mg/kg)	
(A)	Composite:		-	LT 7.5	Pass
	Green soft plastic	Balloon			
	Blue soft plastic	Balloon			

LT = Less than

mg/kg = milligrams per kilogram (ppm = parts per million)

^{* =} Average of duplicate analyses



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TOTAL LEAD CONTENT IN SUBSTRATE (Canada Consumer Product Safety Act - Consumer Products Containing Lead (Contact with Mouth) Regulations, SOR/2010-273)

Classification: Products intended to come into contact with the user's mouth

Analyte	Lead	
Requirement: Maximum allowable limit:	90 mg/kg	

Anal	yte			Lead (Pb)	
	Sample D	escription		Result	Conclusion
	Color / Component	Location	Style	(mg/kg)	
(A)	Composite:		-	LT 9.0	Pass
	Green soft plastic	Balloon			
	Blue soft plastic	Balloon			

LT = Less Than

mg/kg =milligrams per kilogram (ppm=parts per million) ND=Not detected

TOTAL LEAD CONTENT IN SUBSTRATE BY COMPOSITE TESTING (100PPM) (Consumer Product Safety Improvement Act (CPSIA) of 2008)

Test Method: U.S. CPSC-CH-E1001-08.1 (June 21, 2010) or U.S. CPSC-CH-E1002-08.1 (June 21, 2010).

Analyte	Lead
Requirement: Maximum allowable limit:	100 mg/kg

Ana	alyte			Lead (Pb)	
	Sample [Result	Conclusion		
	Color / Component	Location	Style	(mg/kg)	
(A)	Composite:		-	LT 9.0	Pass
	Green soft plastic	Balloon			
	Blue soft plastic	Balloon			

LT = Less Than

mg/kg = milligrams per kilogram (ppm = parts per million)

^{* =} Average of duplicate analyses

^{* =} Average of duplicate analyses



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ASTM F963-17 HEAVY METALS CONTENT IN SUBSTRATE - (Section 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

Sample Identity	Color	Location	Style
Type I: Substrate	other than modeling clay		
	Composite:		-
A. (T)	Green soft plastic	Balloon	
	Blue soft plastic	Balloon	

Analyte	As	Ва	Cd	Cr	Hg	Pb	Sb	Se
Max. Limit Type I (mg/kg) (S)	25	1000	75	60	60	90	60	500
Max. Limit Type II (mg/kg) (S)	25	250	50	25	25	90	60	500
Analytical Correction	60%	30%	30%	30%	50%	30%	60%	60%

Analyte	As	Ва	Cd	Cr	Hg	Pb	Sb	Se	Conclusion
Sample				Result	(mg/kg)				Conclusion
A. (T)	LT 5	LT 50	LT 7.5	LT 6	LT 6	LT 9	LT 6	LT 50	Pass

mg/kg = milligrams per kilogram (ppm=parts per million)

LT = Less Than

(T) = Total analysis

(S) = Soluble analysis

As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Hg = Mercury, Pb = Lead,

Sb = Antimony, Se = Selenium

Remark:

Textiles (natural or synthetic) are exempted for lead content requirement according to clarification of Toy Industry Association for ASTM F963-17. The lead content analysis result of corresponding material herein if applicable is for client's reference only.

On an initial analysis for total heavy metals content, any component of greater than 80% of the set soluble limit will require retesting with the soluble heavy metals analysis of ASTM F963-17.



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Migration of Certain Elements - European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13 with Latest Amendment up to European Commission Directive 2012/7/EU

Test Method: European Standard EN 71 Part 3: 2013, Section 8.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
В	Green soft plastic	Balloon	-
С	Blue soft plastic	Balloon	-

See Soluble Element and	Type I	Dry, brittle, powder-like or pliable toy material
its corresponding Maximum Allowable Limit	Type II	Liquid or sticky toy material
(Req.) in Result Table	Type III	Scraped-off toy material

-	Unit	Req.	Res	sult
Test Item(s)	-	-	В	С
Туре	-	III	III	III
Mass of Trace Amount	g	-	-	-
Arsenic (As)	mg/kg	47	LT 2.00	LT 2.00
Barium (Ba)	mg/kg	18750	LT 2.00	LT 2.00
Cadmium (Cd)	mg/kg	17	LT 2.00	LT 2.00
Chromium (Cr)	mg/kg	460	LT 0.15	LT 0.15
Mercury (Hg)	mg/kg	94	LT 2.00	LT 2.00
Lead (Pb)	mg/kg	47	LT 2.00	LT 2.00
Antimony (Sb)	mg/kg	560	LT 2.00	LT 2.00
Selenium (Se)	mg/kg	460	LT 2.00	LT 2.00
Aluminium (AI)	mg/kg	70000	13.5	12.8
Boron (B)	mg/kg	15000	LT 2.00	LT 2.00
Cobalt (Co)	mg/kg	130	LT 2.00	LT 2.00
Manganese (Mn)	mg/kg	15000	LT 2.00	LT 2.00
Nickel (Ni)	mg/kg	930	LT 2.00	LT 2.00
Strontium (Sr)	mg/kg	56000	LT 2.00	LT 2.00
Tin (Sn)	mg/kg	180000	LT 2.00	LT 2.00
Zinc (Zn)	mg/kg	46000	252	200
Copper (Cu)	mg/kg	7700	LT 2.00	LT 2.00
Conclusion	-	-	Pass	Pass

Note / Key:

ND = Not detected g = gram(s) mg/kg = milligram(s) per kilogram = ppm = part(s) per million NT = Not tested (screening met limit) LT = Less than Req. = Requirement INCON. = Inconclusive



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Remark:

- Results of Cr III and Cr VI were reported as sum of soluble chromium content unless further specified.
- Result(s) of organic tin was (were) reported by soluble tin content unless further specified.
- The Experts group of Notified Bodies under the Safety of Toy Directive (NB-Toys) proposed to amend the maximum allowable limit of lead of European Parliament and Council Directive 2009/48/EC in particular regarding to Annex II, Part III, Point 13. See details in Comment.
- The received sample(s) contained accessible component(s) of less than 10 milligrams by weight on one single sample, therefore such component(s) was (were) not subject to migration of certain elements of European Standard, "Safety of Toys, EN 71 Part 3: 2013", as specified in Section 7.1 -Selection of test portions.



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PHYSICAL AND MECHANICAL HAZARDS (ASTM F963-17)

Section	Requirement	Result
4.1	Material Quality	M
4.3.7	Stuffing Materials	N/A
4.5	Sound-Producing Toys	N/A
4.6	Small Objects	N/A
4.7	Accessible Edges	NA
4.8	Projections	N/A
4.9	Accessible Points	М
4.10	Wires and Rods	N/A
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 (exclude Section 4.25.10 Battery-powered ride-on toys & Section 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
4.30	Toy Gun Marking	N/A
4.32	Certain Toys with Nearly Spherical Ends	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



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FLAMMABILITY (16 CFR SECTION 1500.3(c)6)(vi))

Requirement	Test Method Reference	Findings
Burn rate no greater than 0.1 of an inch per second	16 CFR 1500.44	Did not ignite.

CANADA CONSUMER PRODUCT SAFETY ACT, TOYS REGULATIONS, SOR/2011-17

Section	Parameter / Requirement	Result
Mechanica	l Hazards	l
4	Flexible film bag used for package	NA
7	Small Toys and Detachable component	NA
8	Metal edge	NA
9	Wires frames	NA
10	Plastic Edges	NA
11	Wood	NA
12	Glass	NA
13	Nails and fasteners	NA
14	Safety stops/Locking Device for Folding product	NA
15 (a, b)	Moving Mechanism	NA
15 (c)	Non- Detachable Winding Key Clearance	NA
15 (d)	Detachable Key	NA
16	Projectile Toy	NA
17	Enclosures	NA
18	Stability	NA
19	Auditory hazards	NA
Specific Pr	oducts - Dolls and Soft Toys	1
28	Exposed Sharp Points and Edges	NA
29. (a)	Stuffing Materials shall be clean and free from vermin	NA
29. (b)	Stuffing Materials shall be free from hard and sharp foreign matter	NA
30	Squeaker, Reed and Valve	NA
31	Eyes and Nose	NA
Specific Pr	oducts	
35 & 36	Plant seeds	NA
37	Pull and Push toys	NA
38	Toys Steam engine Boilers	NA



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CANADA CONSUMER PRODUCT SAFETY ACT, TOYS REGULATIONS, SOR/2011-17

Section	Parameter / Requirement	Result
39	Finger Paints	NA
40(a)	Rattles – Sharp wire	NA
40(b, c)	Rattles – Impaction	NA
41	Elastic	NA
42	Yo-Yo type balls	NA
43	Batteries	NA

CANADA CONSUMER PRODUCT SAFETY ACT, SCHEDULE 2

Section	Parameter / Requirement	Result
Mechanica		
1	Jequirity Beans	М
8	Kites	NA
9	Kite strings	NA
14	Lawn, darts with elongated tips	NA

M = Meet NM = Not Meet NA = Not Applicable R = Refer to Comment Section

FLAMMABILITY OF CELLULOSE NITRATE TOY REGULATIONS SOR/2011-17 SECTION 21

Requirement Reference	Observation	Flammability Classification
Section 21	No Flash Effect	М

M = Meet NM-See comment = Not Meet - Refer to Comment Section NA = Not Applicable



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MECHANICAL & PHYSICAL PROPERTIES (EN 71: PART 1 – 2014)

Subclause	Requirement	Result
4.1	Material cleanliness	М
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7 & 7.6	Edges	NA
4.8 & 7.6	Points and metallic wires	М
4.8e	Splinters	М
4.9	Protruding parts	NA
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12 & 7.3	Balloons	NA
4.13 & 7.9	Cord of toy kites and other flying toys	NA
4.14.1	Toys which a child can enter	NA
4.14.2 & 7.8	Masks and helmets	NA
4.15.1	Toys propelled by child	
4.15.1.2 & 7.10.1 & 7.10.2 & 7.10.3 & 7.10.4 & 7.16	Toys propelled by child – Instructions for use	NA
4.15.1.3	Toys propelled by child – Strength	NA
4.15.1.4	Toys propelled by child – Stability	NA
4.15.1.5	Toys propelled by child – Braking	NA
4.15.1.6	Toys propelled by child - Transmission	NA
4.15.1.7	Toys propelled by child – insertion mark	NA
4.15.1.8	Electrically-driven ride-on toys	NA
4.15.2	Toy bicycles	
4.15.2.2 & 7.15	Toy bicycles – Warnings and instructions for use	NA
4.15.2.3	Toy bicycles – Braking	NA
4.15.3 & 7.16 & 7.19	Rocking horses and similar toys	NA
4.15.4 & 7.16	Toys not propelled by child	NA
4.15.5 & 7.18	Toy scooters	NA
4.16	Heavy immobile toys	NA
4.17.1	Projectiles – General	NA
4.17.2	Projectiles toys without stored energy	NA
4.17.3 & 7.7	Projectile toys with stored energy	NA
4.17.4 & 7.7	Bows and arrows	NA
4.18 & 7.4	Aquatic toys and inflatable toys	NA



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MECHANICAL & PHYSICAL PROPERTIES (EN 71: PART 1 – 2014)

Subclause	Requirement	Result
4.19 & 7.13 & 7.14	Percussion caps	NA
*4.20.2.1- 4.20.2.8, 4.20.2.10, 4.20.2.12	Acoustics	NA
4.20.2.9, 4.20.2.11 & 7.14	Acoustics – percussion toys & cap-firing toys	NA
4.21	Toys containing a non-electrical heat source	NA
4.22 & 7.2	Small balls	NA
4.23	Magnet	
4.23.2 a, b & c	Toy other than magnetic / electrical experimental sets intended for children over 8 years	NA
4.23.3 & 7.20	Magnetic / electrical experimental sets intended for children over 8 years	NA
4.24	Yo-yo ball	NA
4.25	Toys attached to food	NA
	FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS	
5.1	General	NA
5.1a	Small parts – as received	NA
5.1b	Small parts, sharp points, sharp edges – after tests	NA
5.1c	Cross section <2mm metal points & wires	NA
5.1e	Toys contain glue	NA
5.1f	Casing of toys	NA
5.2	Fillings, coverings and seams	NA
5.3	Adhesion of plastic sheeting	NA
5.4 &	Cords on toys	NA
5.4(a)	Cords connected to self-retraction mechanism or in pull along toys	NA
5.4(b) & 7.22	Cords and chains that can form tangled loop or noose	NA
5.4(c) & 7.22	Fixed loop of cords or chains	NA
5.4(d)	Nooses	NA
5.4(e)	Self-retraction mechanism	NA
5.4(f) & 7.11	Toy across cradle, cot or perambulator	NA
5.4(g) & 7.22	Cords and chains with free end (exclude pull along toy)	NA
5.4(h)	Cords and chains with free end on pull along toy	NA
5.4(i) & 7.21	Electrical cables	NA
5.5 & 7.12	Liquid filled toys	NA
5.6	Electrically driven toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size	NA
5.9 & 7.17	Monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric shaped toys	NA
5.13	Suction cups	NA



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MECHANICAL & PHYSICAL PROPERTIES (EN 71: PART 1 – 2014)

(=:::::::::::::::::::::::::::::::::::::		
Subclause	Requirement	Result
5.14	Straps intended to be worn fully or partially around the neck	NA
6	Packaging	NA
	WARNINGS, INSTRUCTIONS FOR USE	
7.1	General	NT
7.2	Toys not intended for children under 36 months	NT
7.5	Functional toys	NT

FLAMMABILITY (EN 71 PART 2: 2014)

Subclause	Requirement	Result
4.1	Cellulose nitrate	М
4.1	Surface flash on a piled surface	NA
4.1	Flammable gases	М
4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	NA
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by child in play	NA
4.3	warning on product and packaging (10 - 30 mm/s)	NA
4.4	Toys intended to be entered by a child	NA
4.4	warning on product and packaging (10 – 30 mm/s)	NA
4.5	Soft-filled toys	NA



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EXHIBIT # 1



SAMPLE PRODUCT - AS RECEIVED