



**BUREAU
VERITAS**

PURE TOY LIMITED

Technical Report: (9318)085-1275
Date Received: Mar 26, 2018

Mar 28, 2018
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PURE TOY LIMITED
CHENGHUA TOYS INDUSTRIAL ZONE,
CHENGHAI, SHANTOU, GUANGDONG, 515800,
CHINA

PASS

Sample Description:	QUADCOPTER	Sample Size:	10 SET
Vendor:	N/A	Style No(s):	141892, 141909/ 141754
Manufacturer:	N/A	SKN/SKU No.:	N/A
Buyer:	N/A	PO#:	N/A
Labeled Age Grade:	FOR STYLE #1 SAMPLES = 8+ AGES; FOR STYLE #2 SAMPLES = 14+ AGES		
Appropriate Age Grade:	NOT REQUESTED	Ref #:	N/A
Client Specified Age Grade:	FOR STYLE #2 SAMPLES = 8+; FOR STYLE #1 SAMPLES = NOT SPECIFIED	Country of Origin:	CHINA
Tested Age Grade:	OVER 8 YEARS OF AGE	Country of Destination:	N/A
UPC Code:	N/A	Assortment No.:	N/A
Item#:	SEE ATTACHMENT	Model No.:	N/A

EXECUTIVE SUMMARY:

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

- The mechanical and physical properties requirements of the tested subclauses of the European Standard, "Safety of toys", EN71: Part 1:2014, clauses 1-7.
- The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2011+A1:2014.
- The migration of certain elements in Category III - Scraped off toy material requirements of the European Standard, "Safety of Toys", EN 71 Part 3: 2013 with Amendment A2: 2017.
- Polycyclic Aromatic Hydrocarbons (PAHs) Content - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII with its Latest Amendments, Entry 50, Point 6.

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C/N ZJL/TH

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

- The mechanical and physical properties requirements of the tested subclauses of the AS/NZS ISO Standard, "Safety of toys", ISO 8124: Part 1: 2002 and amendment no.1:2007, Clause 1 – 5 and Annex A.
- The labeling requirements of the tested subclauses of the AS/NZS Standard, "Safety of toys", AS/NZS 8124: Part 1: 2016.
- The flammability requirements of the AS/NZS Standard, "Safety of toys", AS/NZS 8124: Part 2: 2016.
- The migration of certain elements requirements of the AS/NZS Standard, "Safety of toys", AS/NZS 8124: Part 3: 2012 with Amendment No. 1: 2016.
- Australian Trade Practice Act 1974 with Consumer Production Notice No.14 of 2003 Consumer Product Safety Standard for Toys for children up to and including 36 months of age (as amended by consumer protection No.1 of 2005).
- The BBP, DBP and DEHP content requirement(s) of the European Parliament and Council Regulation (EC) No. 1907/2006 of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII Restrictions on the Manufacture, placing on the Market and Use of Certain Dangerous Substances, Mixtures and Articles, Entry 51.
- The DNOP, DINP and DIDP content requirement(s) of the European Parliament and Council Regulation (EC) No. 1907/2006 of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII Restrictions on the Manufacture, placing on the Market and Use of Certain Dangerous Substances, Mixtures and Articles, Entry 52.



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

- The mechanical hazards requirements of ASTM F963-17, "Standard consumer safety specification for toy safety".
- The labeling requirements of ASTM F963-17, "Standard consumer safety specification for toy safety".
- 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 soluble heavy metals content in surface coating requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.1(2).
- The soluble 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 total lead content of 90ppm requirements in surface coating (Consumer Products Safety Improvement Act (CPSIA) of 2008).
- The total lead content of 100 ppm requirements by composite testing in substrate materials (Consumer Products Safety Improvement Act (CPSIA) of 2008).
- The total lead content requirements in toys and child care articles according to the California Proposition 65 settlements of Alameda Superior Court, BG07350969, RG08378050 and San Francisco Superior Court 07-462991.
- The BBP, DBP, DEHP, DnHP and DIDP content requirements in toys, child care articles and watches according to California proposition 65 settlements of county of sacramento case number 07AS04683, and the alameda superior court case numbers BG07350969, RG08367601, RG07351032 and RG08378050.
- 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.

Note: At the request of the client, the sample(s) was evaluated for use by children 8+ for style 2 samples.

Note: EC type examination was required for this submission.

Note: The mechanical hazard test was subcontracted to BVCPS HK. The BVCPS HK' Test report number is: (5217)223-1060.

Note: Per client's request, all the test data were transferred from (9317)222-0410.

**TECHNICAL
QUESTIONS**

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SIGNATURES

Bureau Veritas Consumer Products
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**GENERAL
INFORMATION**

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ATTACHMENT:

Item#:

S1, S2, S3, S4, S5, S6, S7, S8, S9, S10, S11, S12, S13, S14, S15, S16, S17, S18, S19, S20, S21, S22, S23, S24, S25, S26, S27, S28, S29, S30, S31, S32, S33, S34, S35, S36, S37, S38, S39, S40, S41, S42, S43, S44, S45, S46, S47, S48, S49, S50, S51, S52, S53, S54, S55, S56, S57, S58, S59, S60, S61, S62, S63, S64, S65, S66, S67, S68, S69, S1-GPS, S1-W, S1-M, S2-W, S4-W, S9-W, S16A, S16B, S20-GPS, S21A, S21B.

RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the EN71 : Part 1 : 2014, CEN ISO/TR 8124-8:2016 Safety of toys - Part 8: Age determination guidelines prepared by Technical Committee CEN/TC 52 and Age Grade Determination Guidelines of the Consumer Product Safety Commission (CPSC).	
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 Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.

EXPLANATION OF THE ABBREVIATIONS FOR PART 1, 2 & 6

Symbol	Explanation				
NM	The sample(s) DOES NOT MEET the requirement of this Subclause				
M	The sample(s) MEET the requirement of this Subclause				
N/A	Not Applicable				
NR	Not Requested				
NE	Not Evaluated				
NT	Not Tested				
NP	None Present				
P	Present				
R	Refer to Comment Section of this report				
Symbol	Language Present	Symbol	Language Present	Symbol	Language Present
B	Belgian language	G	German language	PR	Portuguese language
D	Danish language	GR	Greek language	S	Spanish language
E	English language	H	Dutch language	SD	Swedish language
F	Finnish language	I	Italian language	SZ	Swiss language
FR	French language	N	Norwegian language		

RESULTS:

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

Subclause	Requirement	Result
4.1	Material cleanliness	M
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	M
4.8 & 7.6	Points and metallic wires	M
4.8e	Splinters	M
4.9	Protruding parts	NA
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	M
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



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RESULTS:

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

Subclause	Requirement	Result
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
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	M
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	Cleaning instruction for item intended for child under 3 years of age	NA
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



RESULTS:

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

Subclause	Requirement	Result
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
5.14	Straps intended to be worn fully or partially around the neck	NA
6	Packaging	(*) M
WARNINGS, INSTRUCTIONS FOR USE		
7	CE Mark	M
7	Manufacturer name and address	M
7	Importer name and address	M
7	Product Identification	M
7.1	General	M
7.2	Toys not intended for children under 36 months	NA
7.5	Functional toys	NA



RESULTS:

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 1

Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method
4.3	8.25.1	4.14.2	8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.11, 8.12	4.17.3	8.24.1	5.3	8.4.2.1, 8.25
4.5	8.5, 8.7, 8.11, 8.12	4.15.1.3	8.11, 8.12, 8.21, 8.22	4.17.4	8.24.2	5.4	8.20, 8.36, 8.38, 8.39, 8.40
4.6	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.14	4.15.1.4	8.23.1	4.18	8.2, 8.3, 8.4.2.1	5.5	8.15
4.7	8.11	4.15.1.5	8.26.1	4.20	8.28	5.6	8.29
4.8	8.12, 8.13	4.15.1.8	8.29	4.21	8.30	5.8	8.16
4.9	8.4.2.3, 8.11, 8.12	4.15.2.4	8.26.2	4.22	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.32	5.10	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9, 8.32
4.10.1	8.18.2, 8.18.3	4.15.3	8.21, 8.23.1	4.23	8.2, 8.3, 8.4.2.1, 8.4.2.2, 8.5, 8.6, 8.7, 8.8, 8.34, 8.35	5.11	8.33
4.10.2	8.5, 8.6, 8.7, 8.11, 8.12	4.15.4	8.21, 8.23.1	4.24	8.37	5.12	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9,
4.11	8.2, 8.3, 8.4.2.1, 8.9, 8.17	4.15.5	8.11, 8.12, 8.21, 8.22, 8.26.3, 8.27	4.25	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32.1	5.13	8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32
4.13	8.19	4.16	8.23.2	5.1	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.9, 8.11, 8.12		
4.14.1	8.31.1, 8.31.2	4.17.1	8.4.2.3				

* Note: Subclass 4.20.2.5 Toys using headphones or earphone & 4.20.2.12 Voice Toys not accredited

FLAMMABILITY (EN 71: PART 2: 2011 +A1:2014)

Subclause	Requirement	Result
4.1	Celluloid (cellulose nitrate)	NP
4.1	Dangerous flammable gases	NA
4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	NA
4.1	Materials with a pile surface which produces a flash effect when a flame is applied	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	Toy disguise costumes and toys intended to be worn by child in play with warning	NA
4.4	Toys intended to be entered by a child	NA
4.4	Toys intended to be entered by a child with warning	NA
4.5	Soft-filled toys	NA

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2

Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method
4.2.2	5.2	4.2.4	5.3	4.3	5.4	4.5	5.5
4.2.3	5.3	4.2.5	5.4	4.4	5.4	-	-

RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the Age-grading guidelines of the Annex A of the AS/NZS ISO Standard, "Safety of toys", ISO 8124:Part 1:2016.	
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 Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.

MECHANICAL & PHYSICAL PROPERTIES – (AS/NZS 8124.1:2016)

Subclause	Requirement	Result
4.1	Normal use	M
4.2	Reasonably foreseeable abuse	N/A
4.3	Material	-
4.3.1	Material quality	M
4.3.2	Expanding materials	N/A
4.4	Small parts	-
4.4.1	Small parts (under 36 months)	N/A
4.4.2	Small parts warning (36 months and over but under 72 months)	N/A
4.5	Shape, size and strength of certain toys	-
4.5.1	Squeeze toys, rattles, fasteners, and certain other toys and components of toys	N/A
4.5.2a	Small ball (under 36 months)	N/A
4.5.2b	Small ball warning (36 months and over but under 96 months)	N/A
4.5.3	Pompoms	N/A
4.5.4	Pre-school play figures	N/A
4.5.5	Toy pacifiers	N/A
4.5.6	Balloons Warning	N/A
4.5.7	Marbles Warning	N/A
4.5.8	Hemispheric-shaped toys	N/A
4.6	Edges	-
4.6.1	Accessible sharp edges of glass or metal	N/A
4.6.2	Functional sharp edges warning	N/A
4.6.3	Edges on metal toys	N/A
4.6.4	Edges on moulded toys	N/A
4.6.5	Edges on exposed bolts or threaded rods	N/A
4.7	Points	-
4.7.1	Accessible sharp points	N/A
4.7.2	Functional sharp points warning	N/A
4.7.3	Wooden toys	N/A
4.8	Projections	-
4.8.1	General	N/A
4.8.2	Special considerations for bath toy projections	-

RESULTS:

MECHANICAL & PHYSICAL PROPERTIES – (AS/NZS 8124.1:2016)

Subclause	Requirement	Result
4.9	Metal wires and rods	-
4.9a	Metal wires and rods intended to be bent	N/A
4.9b	Metal wires and rods likely to be bent	N/A
4.9c	End of spokes	N/A
4.10	Plastic film or plastic bags in packaging and in toys	(*) M
4.11	Cords and elastics	-
4.11.1	Cords and elastics (under 18 months)	N/A
4.11.2	Self-retracting pull cords (under 18 months)	N/A
4.11.3	Cords for pull toys (under 36 months)	N/A
4.11.4	Cords on toy bags	N/A
4.11.5	Crib or playpen toys and mobiles warning & instruction for use	N/A
4.11.6	Crib gyms and similar toys warning & instruction for use	N/A
4.11.7	Cords, strings and lines for flying toys	N/A
	Warning - Toy kites and other flying toys with cord	N/A
4.12	Folding mechanisms	-
4.12.1	Toy pushchairs, perambulators and similar toys	N/A
4.12.2	Other toys with folding mechanisms	N/A
4.12.3	Hinge-line clearance	N/A
4.13	Holes, clearances and accessibility of mechanisms	-
4.13.1	Circular holes in rigid materials (under 60 months)	N/A
4.13.2	Accessible clearances for movable segments (under 96 months)	N/A
4.13.3	Chains or belts in ride-on toys	N/A
4.13.4	Other driving mechanisms	N/A
4.13.5	Winding keys (under 36 months)	N/A
4.14	Springs	N/A
4.15	Stability and overload requirements	-
4.15.1	Stability of ride-on toys and seats (under 60 months)	-
4.15.1.1	Sideways stability, feet available for stabilization	N/A
4.15.1.2	Sideways stability, feet unavailable for stabilization	N/A
4.15.1.3	Fore and aft stability	N/A
4.15.2	Overload requirements for ride-on toys and seats	N/A
4.15.3	Stability of stationary floor toys	N/A
4.16	Enclosures	-
4.16.1	Ventilation	N/A
4.16.2	Closures	-
4.16.2.1	Lids, doors and similar devices	N/A
4.16.2.2	Lid support for toy chests and similar toys	N/A
	Instruction for assembly	N/A
4.16.3	Toys that enclose the head	N/A

RESULTS:

MECHANICAL & PHYSICAL PROPERTIES – (AS/NZS 8124.1:2016)

Subclause	Requirement	Result
4.17	Simulated protective equipment	N/A
	Warning	N/A
4.18	Projectile toys	-
4.18.1	General	-
4.18.2	Projectiles	N/A
4.18.3	Projectile toys with stored energy	N/A
	Instruction for use	N/A
4.18.4	Projectile toys without stored energy	N/A
	Instruction for use	N/A
4.19	Rotors and propellers	N/A
4.20	Aquatic toys	N/A
	Warning	N/A
4.21	Braking	N/A
4.22	Toy bicycles	-
4.22.1	Toy bicycles – Instruction for use	N/A
4.22.2	Toy bicycles – Maximum saddle height	N/A
4.22.3	Toy bicycles – Braking requirements	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
	Warning	N/A
4.26	Mouth-actuated toys	N/A
4.27	Toy roller skates, toy inline skates and toy skateboards	N/A
	Warning	N/A
4.28	Percussion caps	N/A
	Warning	N/A
4.29	Acoustic requirement	M
	Warning	N/A
4.30	Toy scooters	N/A
4.31	Magnets and magnetic components	-
4.31.1	Magnetic/electrical experimental sets (for children 8 years and over)	N/A
	Warning	N/A
4.31.2	All other toys with magnets and magnetic components (under 8 years)	-
4.31.2 a	Loose-as-received magnet(s) and magnetic component(s)	N/A
4.31.2 b	Wooden toys, toys intended in water and mouth pieces of mouth-actuated toys with magnets or magnetic components	N/A
4.31.2 c	Magnet(s) and magnetic component(s) liberated from toy	N/A

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section

FLAMMABILITY (AS/NZS 8124.2: 2016)

Subclause	Requirement	Result
4.1	Celluloid (cellulose nitrate)	NP
4.1	Surface flash on a piled surface	M
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 play	N/A
4.3	warning on product and packaging (10 - 30 mm/s)	N/A
4.4	Toys intended to be entered by a child	N/A
4.4	warning on product and packaging (10 - 30 mm/s)	N/A
4.5	Soft - filled toys	N/A

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section P = Present NP = Not Present



RESULTS:

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 F963-17, "Standard Consumer Safety Specification for 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 Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.



RESULTS:

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	M
4.6	Small Objects	N/A
4.7	Accessible Edges	N/A
4.8	Projections	N/A
4.9	Accessible Points	N/A
4.10	Wires and Rods	N/A
4.11	Nails and Fasteners	M
4.12	Plastic Film	M
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)	(*) M
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

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section



RESULTS:

LABELING AND INSTRUCTIONAL REQUIREMENT (ASTM F963-17)

Section	Requirement	Result
5.4 & 5.3	Aquatic Toys	N/A
5.5 & 5.3	Crib and Playpen Toys	N/A
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 Sharp Points	N/A
5.11	Small Objects, Small Balls, Marbles and Balloons (16 CFR 1500.19)	N/A
5.12	Toy Caps (16CFR1500.86)	N/A
5.13	Art Materials (16 CFR 1500.14(b)(8))	N/A
5.15	Battery-Operated Toys (exclude 5.15.1 and 5.15.2)	N/A
5.15.1 & 5.3	Battery-Powered Ride-On Toys	N/A
5.15.2 & 5.3	Button or Coin Cell Batteries	N/A
5.16	Promotional Materials	M
5.17 & 5.3	Magnets	N/A
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 an Adult	N/A
6.5	Battery-Operated Toys	(*) M
6.6	Battery-Powered Ride-On Toys	N/A
6.7	Toys in Contact with Food	N/A
7.1	Producer's Name and Address	M
7.2	Battery-Powered Ride-on Toys	N/A

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section

FLAMMABILITY (ASTM F963-17 Sec. 4.2 & Annex A5)

Requirement	Test Method Reference	Findings
Burn rate no greater than 0.1 of an inch per second	ASTM F963-16 Sec. 4.2 & Annex A5	Burn rate not exceed 0.1 inch per second.



Migration of Certain Elements - European Standard EN 71 Part 3: 2013 with Amendment A2: 2017

Test Method : European Standard EN 71 Part 3: 2013 with Amendment A2: 2017, Section 8.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A1	Black coating (on shell)	/	/
A2	Silvery coating (on shell)	/	/
B1	Red coating (on shell)	/	/
B6	Black plastic (shell of wire)	/	/
A3	White plastic (wing)	/	/
A4	Red plastic (wing)	/	/
A5	White plastic (axis of wing)	/	/
A6	White plastic (body)	/	/
A7	Transparent plastic (LED)	/	/
A8	Blue/ golden/ transparent plastic (all battery case)	/	/
A9	Black plastic (wire)	/	/
A10	Red plastic (wire)	/	/
A12	Black plastic (on-off switch)	/	/
A13	Transparent/ red plastic (case of USB)	/	/
A14	Black plastic (plug of USB)	/	/
A15	Black plastic (body of screw)	/	/
A16	Shining black plastic (cap)	/	/
A17	Black plastic (body of telecontrol)	/	/
A18	Transparent/ red plastic (on telecontrol)	/	/
A19	White plastic (on telecontrol)	/	/
B2	White plastic (body)	/	/
B3	Black plastic (wire)	/	/
B4	Red plastic (wire)	/	/
B7	Orange plastic (on telecontrol)	/	/
B8	White plastic (body of telecontrol)	/	/
A11	Beige plastic (all linker of wire)	/	/
B5	White plastic (wire)	/	/

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

-	Unit	Req.	Result				
Test Item(s)	-	-	A1	A2	B1	B6	A3
Type	-	III	III	III	III	III	III
Parameter	-	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-	-
Aluminium (Al)	mg/kg	70000	ND	ND	ND	ND	ND
Antimony (Sb)	mg/kg	560	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND	ND	ND



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Barium (Ba)	mg/kg	18750	ND	ND	ND	ND	ND
Boron (B)	mg/kg	15000	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.2	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	15000	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	56000	ND	ND	ND	ND	ND
Tin (Sn)	mg/kg	180000	ND	ND	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS

-	Unit	Req.	Result				
Test Item(s)	-	-	A4	A5	A6	A7	A8
Type	-	III	III	III	III	III	III
Parameter	-	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-	-
Aluminium (Al)	mg/kg	70000	ND	ND	ND	ND	ND
Antimony (Sb)	mg/kg	560	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND	ND	ND	ND
Boron (B)	mg/kg	15000	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.2	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	15000	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	56000	ND	ND	ND	ND	ND
Tin (Sn)	mg/kg	180000	ND	ND	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS

-	Unit	Req.	Result				
Test Item(s)	-	-	A9	A10	A12	A13	A14
Type	-	III	III	III	III	III	III
Parameter	-	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-	-
Aluminium (Al)	mg/kg	70000	ND	ND	ND	ND	ND
Antimony (Sb)	mg/kg	560	ND	ND	ND	ND	ND



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Arsenic (As)	mg/kg	47	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND	ND	ND	ND
Boron (B)	mg/kg	15000	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.2	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	15000	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	56000	ND	ND	ND	ND	ND
Tin (Sn)	mg/kg	180000	ND	ND	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS

-	Unit	Req.	Result				
Test Item(s)	-	-	A15	A16	A17	A18	A19
Type	-	III	III	III	III	III	III
Parameter	-	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-	-
Aluminium (Al)	mg/kg	70000	ND	ND	ND	ND	ND
Antimony (Sb)	mg/kg	560	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND	ND	ND	ND
Boron (B)	mg/kg	15000	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.2	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	15000	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	56000	ND	ND	ND	ND	ND
Tin (Sn)	mg/kg	180000	ND	ND	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS

-	Unit	Req.	Result				
Test Item(s)	-	-	B2	B3	B4	B7	B8
Type	-	III	III	III	III	III	III
Parameter	-	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-	-
Aluminium (Al)	mg/kg	70000	ND	ND	ND	ND	ND



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Antimony (Sb)	mg/kg	560	ND	ND	ND	ND	ND
Arsenic (As)	mg/kg	47	ND	ND	ND	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND	ND	ND	ND
Boron (B)	mg/kg	15000	ND	ND	ND	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND	ND	ND	ND
Chromium III (Cr III)	mg/kg	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	mg/kg	0.2	ND	ND	ND	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND	ND	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND	ND	ND	ND
Lead (Pb)	mg/kg	90	ND	ND	ND	ND	ND
Manganese (Mn)	mg/kg	15000	ND	ND	ND	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND	ND	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND	ND	ND	ND
Selenium (Se)	mg/kg	460	ND	ND	ND	ND	ND
Strontium (Sr)	mg/kg	56000	ND	ND	ND	ND	ND
Tin (Sn)	mg/kg	180000	ND	ND	ND	ND	ND
Organic tin	mg/kg	12	ND	ND	ND	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND	ND	ND	ND
Conclusion	-	-	PASS	PASS	PASS	PASS	PASS

-	Unit	Req.	Result	
Test Item(s)	-	-	A11	B5
Type	-	III	III	III
Parameter	-	-	-	-
Mass of Trace Amount	g	-	-	-
Aluminium (Al)	mg/kg	70000	ND	ND
Antimony (Sb)	mg/kg	560	ND	ND
Arsenic (As)	mg/kg	47	ND	ND
Barium (Ba)	mg/kg	18750	ND	ND
Boron (B)	mg/kg	15000	ND	ND
Cadmium (Cd)	mg/kg	17	ND	ND
Chromium III (Cr III)	mg/kg	460	ND	ND
Chromium VI (Cr VI)	mg/kg	0.2	ND	ND
Cobalt (Co)	mg/kg	130	ND	ND
Copper (Cu)	mg/kg	7700	ND	ND
Lead (Pb)	mg/kg	90	ND	ND
Manganese (Mn)	mg/kg	15000	ND	ND
Mercury (Hg)	mg/kg	94	ND	ND
Nickel (Ni)	mg/kg	930	ND	ND
Selenium (Se)	mg/kg	460	ND	ND
Strontium (Sr)	mg/kg	56000	ND	ND
Tin (Sn)	mg/kg	180000	ND	ND
Organic tin	mg/kg	12	ND	ND
Zinc (Zn)	mg/kg	46000	ND	ND
Conclusion	-	-	PASS	PASS

Note / Key :

ND = Not detected

NR = Not requested

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

[] = Detection Limit by In House Ion Chromatography Analysis

">" = Greater than

g = gram(s)

Req. = Requirement

INCON. = Inconclusive

{ } = Detection Limit by test method with reference to EN 71 Part 3: 2013 with Amendment A2: 2017, Annex G
Detection Limit (mg/kg) :
For Type I and Type II - Each (As, Cd, Cr III and Hg) : 0.15 ; Cr VI : 0.005 [0.002] ; Organic tin : 0.04 ;
Pb : 0.5 ; Each (Others) : 2
For Type III - Cr III : 0.15 ; Cr VI : 0.15 [0.002] ; Each (Others) : 2

Remark :

- Results of Cr III and Cr VI were reported as sum of soluble chromium content unless further verified.
 - Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation unless further specified.
 - 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 with Amendment A2: 2017", as specified in Section 7.1 - Selection of test portions.
 - Cr VI is very likely to be present in Test Item(s), client is strongly advised to review its (their) chemical formulation.
 - Organic tin is very likely to be present in Test Item(s), client is strongly advised to review its (their) chemical formulation.
 - # denotes as result(s) was (were) verified by:
For organic tin content - test method with reference to European Standard EN 71 Part 3: 2013 with Amendment A2: 2017, Annex G and reported as tributyltin (TBT) cation.
For Cr VI content - in house ion chromatography analysis.
 - Test Item(s) was (were) de-waxed by n-heptane before testing.
-

MIGRATION OF CERTAIN ELEMENTS (AS/NZS 8124 Part 3: 2012 with Amendment No. 1: 2016)

Test Method : Soluble heavy metals content analysis was determined by Inductively Coupled Plasma Spectrometry.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A1	Black coating (on shell)	/	/
A2	Silvery coating (on shell)	/	/
B1	Red coating (on shell)	/	/
B6	Black plastic (shell of wire)	/	/
A3	White plastic (wing)	/	/
A4	Red plastic (wing)	/	/
A5	White plastic (axis of wing)	/	/
A6	White plastic (body)	/	/
A7	Transparent plastic (LED)	/	/
A8	Blue/ golden/ transparent plastic (all battery case)	/	/
A9	Black plastic (wire)	/	/
A10	Red plastic (wire)	/	/
A12	Black plastic (on-off switch)	/	/
A13	Transparent/ red plastic (case of USB)	/	/
A14	Black plastic (plug of USB)	/	/
A15	Black plastic (body of screw)	/	/
A16	Shining black plastic (cap)	/	/
A17	Black plastic (body of telecontrol)	/	/
A18	Transparent/ red plastic (on telecontrol)	/	/
A19	White plastic (on telecontrol)	/	/
B2	White plastic (body)	/	/
B3	Black plastic (wire)	/	/
B4	Red plastic (wire)	/	/
B7	Orange plastic (on telecontrol)	/	/
B8	White plastic (body of telecontrol)	/	/
A11	Beige plastic (all linker of wire)	/	/
B5	White plastic (wire)	/	/

Soluble Element(s)	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Maximum Allowable Limit (mg/kg)	25	1 000	75	60	60	90	60	500
All materials except modelling clay (Type I to VII, IX & X)								
(See Comment for the List of Material Types)	25	250	50	25	25	90	60	500
Analytical Correction (%)	60	30	30	30	50	30	60	60

	Unit	Result				
-	-	A1	A2	B1	B6	A3
Test Item(s)	-	-	-	-	-	-
Parameter	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-
Soluble Arsenic (As)	mg/kg	ND	ND	ND	ND	ND



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Soluble Barium (Ba)	mg/kg	ND	ND	ND	ND	ND
Soluble Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND
Soluble Chromium (Cr)	mg/kg	ND	ND	ND	ND	ND
Soluble Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND
Soluble Lead (Pb)	mg/kg	ND	ND	ND	ND	ND
Soluble Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND
Soluble Selenium (Se)	mg/kg	ND	ND	ND	ND	ND
Conclusion	-	PASS	PASS	PASS	PASS	PASS

-	Unit	Result				
Test Item(s)	-	A4	A5	A6	A7	A8
Parameter	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-
Soluble Arsenic (As)	mg/kg	ND	ND	ND	ND	ND
Soluble Barium (Ba)	mg/kg	ND	ND	ND	ND	ND
Soluble Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND
Soluble Chromium (Cr)	mg/kg	ND	ND	ND	ND	ND
Soluble Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND
Soluble Lead (Pb)	mg/kg	ND	ND	ND	ND	ND
Soluble Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND
Soluble Selenium (Se)	mg/kg	ND	ND	ND	ND	ND
Conclusion	-	PASS	PASS	PASS	PASS	PASS

-	Unit	Result				
Test Item(s)	-	A9	A10	A12	A13	A14
Parameter	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-
Soluble Arsenic (As)	mg/kg	ND	ND	ND	ND	ND
Soluble Barium (Ba)	mg/kg	ND	ND	ND	ND	ND
Soluble Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND
Soluble Chromium (Cr)	mg/kg	ND	ND	ND	ND	ND
Soluble Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND
Soluble Lead (Pb)	mg/kg	ND	ND	ND	ND	ND
Soluble Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND
Soluble Selenium (Se)	mg/kg	ND	ND	ND	ND	ND
Conclusion	-	PASS	PASS	PASS	PASS	PASS

-	Unit	Result				
Test Item(s)	-	A15	A16	A17	A18	A19
Parameter	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-
Soluble Arsenic (As)	mg/kg	ND	ND	ND	ND	ND
Soluble Barium (Ba)	mg/kg	ND	ND	ND	ND	ND
Soluble Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND
Soluble Chromium (Cr)	mg/kg	ND	ND	ND	ND	ND
Soluble Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND
Soluble Lead (Pb)	mg/kg	ND	ND	ND	ND	ND
Soluble Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND
Soluble Selenium (Se)	mg/kg	ND	ND	ND	ND	ND
Conclusion	-	PASS	PASS	PASS	PASS	PASS

-	Unit	Result				
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Test Item(s)	-	B2	B3	B4	B7	B8
Parameter	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-
Soluble Arsenic (As)	mg/kg	ND	ND	ND	ND	ND
Soluble Barium (Ba)	mg/kg	ND	ND	ND	ND	ND
Soluble Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND
Soluble Chromium (Cr)	mg/kg	ND	ND	ND	ND	ND
Soluble Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND
Soluble Lead (Pb)	mg/kg	ND	ND	ND	ND	ND
Soluble Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND
Soluble Selenium (Se)	mg/kg	ND	ND	ND	ND	ND
Conclusion	-	PASS	PASS	PASS	PASS	PASS

-	Unit	Result	
Test Item(s)	-	A11	B5
Parameter	-	-	-
Mass of Trace Amount	g	-	-
Soluble Arsenic (As)	mg/kg	ND	ND
Soluble Barium (Ba)	mg/kg	ND	ND
Soluble Cadmium (Cd)	mg/kg	ND	ND
Soluble Chromium (Cr)	mg/kg	ND	ND
Soluble Mercury (Hg)	mg/kg	ND	ND
Soluble Lead (Pb)	mg/kg	ND	ND
Soluble Antimony (Sb)	mg/kg	ND	ND
Soluble Selenium (Se)	mg/kg	ND	ND
Conclusion	-	PASS	PASS

Note / Key :

ND = Not detected

">" = Greater than

NR = Not requested

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

% = percent

g = gram(s)

Detection Limit (mg/kg) :

For Type I to VII, IX & X - As : 2.5; Ba : 100; Cd : 7.5; Each (Cr, Hg, & Sb) : 6.0; Pb : 9.0; Se : 50

For Type VIII - Each (As, Cr & Hg) : 2.5; Ba : 25; Cd : 5.0; ; Pb : 9.0; Sb : 6.0 Se : 50

Remark :

- ^c denotes as reported result(s) was (were) adjusted by analytical correction shown in limit table.
- 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: 1994 with Amendments A1: 2000 and AC: 2002", as specified in Section 7 - Selection of test portions.



Polycyclic Aromatic Hydrocarbons (PAHs) Content - European Parliament and Council Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII with its Latest Amendments, Entry 50, Point 6

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A3+A4+A5	White plastic (wing) + Red plastic (wing) + White plastic (axis of wing)	/	/
A6+A7+A8	White plastic (body) + Transparent plastic (LED) + Blue/ golden/ transparent plastic (all battery case)	/	/
A9+A10+A11	Black plastic (wire) + Red plastic (wire) + Beige plastic (all linker of wire)	/	/
A12+A13+A14	Black plastic (on-off switch) + Transparent/ red plastic (case of USB) + Black plastic (plug of USB)	/	/
A15+A16+A17	Black plastic (body of screw) + Shining black plastic (cap) + Black plastic (body of telecontrol)	/	/
A18+A19+B2	Transparent/ red plastic (on telecontrol) + White plastic (on telecontrol) + White plastic (body)	/	/
B3+B4+B5	Black plastic (wire) + Red plastic (wire) + White plastic (wire)	/	/
B6+B7+B8	Black plastic (shell of wire) + Orange plastic (on telecontrol) + White plastic (body of telecontrol)	/	/

Maximum Allowable Limit :	0.5 mg/kg (Each of all listed PAHs)^[a]
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Test Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
A3+A4+A5	ND	ND	mg/kg	PASS
A6+A7+A8	ND	ND	mg/kg	PASS
A9+A10+A11	ND	ND	mg/kg	PASS
A12+A13+A14	ND	ND	mg/kg	PASS
A15+A16+A17	ND	ND	mg/kg	PASS
A18+A19+B2	ND	ND	mg/kg	PASS
B3+B4+B5	ND	ND	mg/kg	PASS
B6+B7+B8	ND	ND	mg/kg	PASS

Note / Key :

ND = Not detected
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
1 % = 10 000 mg/kg
Detection Limit (mg/kg) -
For individual testing - Each of the listed PAHs : 0.2
For composite testing - Each of the listed PAHs : 0.1

">" = Greater than
Conc. = Concentration
% = percent
Test Method I = Individual Testing
Test Method II = Composite Testing

Remark :



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- The list of polycyclic aromatic hydrocarbons is summarized in table of Appendix.
- Rubber or plastic component(s) of Toys (Including activity toys and childcare articles) that come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity under normal or reasonably foreseeable conditions of use is (are) applicable to be tested.
- ^[a] denotes as this maximum allowable limit applies to product(s) placed on the market for the first time on or after December 27, 2015 only.
- Test Item(s) was (were) claimed to be placed on the market for the first time before December 27, 2015 by client. Therefore, this (these) Test Item(s) containing the found PAH(s) level should be considered as data.

APPENDIX

List of Polycyclic Aromatic Hydrocarbons [European Parliament and Council Regulation EC No. 1907/2006, Annex XVII, Entry 50, Point 6] :					
No.	Name of Analyte(s)	CAS-No.	No.	Name of Analyte(s)	CAS-No.
1	Benzo[a]pyrene (BaP)	50-32-8	5	Benzo[b]fluoranthene (BbFA)	205-99-2
2	Benzo[e]pyrene (BeP)	192-97-2	6	Benzo[j]fluoranthene (BjFA)	205-82-3
3	Benzo[a]anthracene (BaA)	56-55-3	7	Benzo[k]fluoranthene (BkFA)	207-08-9
4	Chrysene (CHR)	218-01-9	8	Dibenzo[a,h]anthracene (DBAhA)	53-70-3

CAS-No. = Chemical Abstracts Service registry number



Total Heavy Metals Content - Initial Screening of ASTM International Standard ASTM F963-17, Section 4.3.5.1(2) for Soluble Heavy Metals Content in Surface Coating

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex 7.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A1+A2+B1	Black coating (on shell) + Silvery coating (on shell) + Red coating (on shell)	/	/

Total Element(s)	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Maximum Allowable Limit (mg/kg)	25	1000	75	60	60	90	60	500

-	Unit	Result
Test Item(s)	-	A1+A2+B1
Parameter	-	-
Total Arsenic (As)	mg/kg	<5
Total Barium (Ba)	mg/kg	<5
Total Cadmium (Cd)	mg/kg	<2
Total Chromium (Cr)	mg/kg	3.73
Total Mercury (Hg)	mg/kg	<5
Total Lead (Pb)	mg/kg	<10
Total Antimony (Sb)	mg/kg	<10
Total Selenium (Se)	mg/kg	<15
Conclusion	-	PASS

Note / Key :

ND = Not detected “>” = Greater than NR = Not requested
% = percent mg/kg = milligram(s) per kilogram = ppm = part(s) per million
Detection Limit (mg/kg) - As : 10 ; Ba : 40 ; Cd : 20 ; Cr : 10 ; Hg : 10 ; Pb : 20 ; Sb : 20 ; Se : 40

Remark :

- Test Item(s) with total heavy metals content in surface coating exceeding 80 % of this maximum allowable limit based on the lowest weight component or this maximum allowable limit should be considered as data and further tested by soluble heavy metals analysis of ASTM International Standard ASTM F963-17, Sections 8.3.2 to 8.3.4 as specified in Section 8.3.1.3.
- Although the Test Item(s) complies (comply) with the above requirement, it is possible that, if tested separately, one or more of the constituents of this (these) Test Item(s) may not comply with this requirement. Separate testing on this (these) Test Item(s) is recommended to discern the failed constituent(s).



Soluble Heavy Metals Content in Surface Coating - ASTM International Standard ASTM F963-17, Section 4.3.5.1(2)

Test Method : ASTM International Standard ASTM F963-17, Sections 8.3.2 to 8.3.4.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A1	Black coating (on shell)	/	/
A2	Silvery coating (on shell)	/	/
B1	Red coating (on shell)	/	/

Soluble Element(s)	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Maximum Allowable Limit (mg/kg)	25	1000	75	60	60	90	60	500
Analytical Correction (%)	60	30	30	30	50	30	60	60

Test Item(s)	Unit	Result		
		A1	A2	B1
Parameter	-	-	-	-
Mass of Trace Amount	g	-	-	-
Soluble Arsenic (As)	mg/kg	ND	ND	ND
Soluble Barium (Ba)	mg/kg	ND	ND	ND
Soluble Cadmium (Cd)	mg/kg	ND	ND	ND
Soluble Chromium (Cr)	mg/kg	ND	ND	ND
Soluble Antimony (Sb)	mg/kg	ND	ND	ND
Soluble Selenium (Se)	mg/kg	ND	ND	ND
Soluble Lead (Pb)	mg/kg	ND	ND	ND
Soluble Mercury (Hg)	mg/kg	ND	ND	ND
Conclusion	-	PASS	PASS	PASS

Note / Key :

ND = Not detected

">" = Greater than

NR = Not requested

% = percent

g = gram(s)

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Detection Limit (mg/kg) - As : 2.5 ; Ba : 100 ; Cd : 7.5 ; Cr : 6.0 ; Hg : 6.0 ; Pb : 9.0 ; Sb : 6.0 ; Se : 50

Remark :

- ^C denotes as reported result(s) was (were) adjusted by analytical correction shown in limit table.
- The received sample(s) contained scrapable surface coating material(s) of less than 10 milligrams by weight on one single sample, therefore such coating material(s) was (were) not subject to the soluble heavy metals content analysis of ASTM International Standard ASTM F963-17, Section 4.3.5.1(2), as specified in Section 8.3.3.6(2).



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

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

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
B6+B7+B8	Black plastic (shell of wire) + Orange plastic (on telecontrol) + White plastic (body of telecontrol)	/	/
A18+A19+B2	Transparent/ red plastic (on telecontrol) + White plastic (on telecontrol) + White plastic (body)	/	/
A3+A4+A5	White plastic (wing) + Red plastic (wing) + White plastic (axis of wing)	/	/
A6+A7+A8	White plastic (body) + Transparent plastic (LED) + Blue/ golden/ transparent plastic (all battery case)	/	/
A9+A10+A11	Black plastic (wire) + Red plastic (wire) + Beige plastic (all linker of wire)	/	/
B5	White plastic (wire)	/	/
B4	Red plastic (wire)	/	/
A15	Black plastic (body of screw)	/	/
A16	Shining black plastic (cap)	/	/
A17	Black plastic (body of telecontrol)	/	/
A12+A13+A14	Black plastic (on-off switch) + Transparent/ red plastic (case of USB) + Black plastic (plug of USB)	/	/

Maximum Allowable Limit :	100 mg/kg
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Test Item(s)	Result		Conclusion
	Total Lead (Pb)	Unit	
B6+B7+B8	<10	mg/kg	PASS
A18+A19+B2	<10	mg/kg	PASS
A3+A4+A5	<10	mg/kg	PASS
A6+A7+A8	<10	mg/kg	PASS
A9+A10+A11	<10	mg/kg	PASS
B5	<10	mg/kg	PASS
B4	<10	mg/kg	PASS
A15	83.0	mg/kg	PASS
A16	<10	mg/kg	PASS
A17	<10	mg/kg	PASS
A12+A13+A14	<10	mg/kg	PASS

Note / Key :

ND = Not detected “>” = Greater than
 mg/kg = milligram(s) per kilogram % = percent 1 % = 10000 mg/kg
 Detection Limit (mg/kg) : 10



Remark :

- According to Children's Products Containing Lead; Exemptions for Certain Electronic Devices; Final Rule, exemption were granted to steel alloy containing up to 0.35 % lead by weight, aluminum containing up to 0.4 % lead by weight and copper-based alloy containing up to 4 % lead by weight.
 - Test Item(s) I011 was (were) claimed as steel alloy by client. Therefore, this (these) Test Item(s) containing the found lead level should be exempted.
 - Test Item(s) I011 was (were) claimed as aluminum by client. Therefore, this (these) Test Item(s) containing the found lead level should be exempted.
 - Test Item(s) I011 was (were) claimed as copper-based alloy by client. Therefore, this (these) Test Item(s) containing the found lead level should be exempted.
-

Total Lead Content in Toys and Child Care Articles – California Proposition 65

Test Method : With reference to U. S. EPA 3051A: 2007.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
B10	Silvery metal (on screw)	/	/
B11	Silvery metal (on USB)	/	/
B9	Silvery metal (all screw)	/	/
A1+A2+B1	Black coating (on shell) + Silvery coating (on shell) + Red coating (on shell)	/	/
B6+B7+B8	Black plastic (shell of wire) + Orange plastic (on telecontrol) + White plastic (body of telecontrol)	/	/
A18+A19+B2	Transparent/ red plastic (on telecontrol) + White plastic (on telecontrol) + White plastic (body)	/	/
A3+A4+A5	White plastic (wing) + Red plastic (wing) + White plastic (axis of wing)	/	/
A6+A7+A8	White plastic (body) + Transparent plastic (LED) + Blue/ golden/ transparent plastic (all battery case)	/	/
A9+A10+A11	Black plastic (wire) + Red plastic (wire) + Beige plastic (all linker of wire)	/	/
B5	White plastic (wire)	/	/
B4	Red plastic (wire)	/	/
A15	Black plastic (body of screw)	/	/
A16	Shining black plastic (cap)	/	/
A17	Black plastic (body of telecontrol)	/	/
A12+A13+A14	Black plastic (on-off switch) + Transparent/ red plastic (case of USB) + Black plastic (plug of USB)	/	/

Maximum Allowable Limit :	600 mg/kg
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Test Item(s)	Result		Conclusion
	Total Lead (Pb)	Unit	
B10	<10	mg/kg	PASS
B11	<10	mg/kg	PASS
B9	<10	mg/kg	PASS
A1+A2+B1	<10	mg/kg	PASS
B6+B7+B8	<10	mg/kg	PASS
A18+A19+B2	<10	mg/kg	PASS
A3+A4+A5	<10	mg/kg	PASS
A6+A7+A8	<10	mg/kg	PASS
A9+A10+A11	<10	mg/kg	PASS
B5	<10	mg/kg	PASS



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B4	<10	mg/kg	PASS
A15	83.0	mg/kg	PASS
A16	<10	mg/kg	PASS
A17	<10	mg/kg	PASS
A12+A13+A14	<10	mg/kg	PASS

Note / Key :

ND = Not detected “>” = Greater than
mg/kg = milligram(s) per kilogram = ppm = part(s) per million 10 000 mg/kg = 1 %
% = percent U. S. EPA = United States Environmental Protection Agency
Detection Limit (mg/kg) : 10

Remark :

- Non-suspect materials as defined by United States Consumer Products Safety Commission (CPSC) in Code of Federal Regulations (CFR), Title 16, Sections 1500.91(d) and (e) are exempted from this total lead content testing.
- Vendor is responsible for the compliance of all other material(s) which was (were) not tested above.
- Product(s) with total lead content exceeding this maximum allowable limit has (have) to reformulate.



Total Heavy Metals Content - Initial Screening of ASTM International Standard ASTM F963-17, Section 4.3.5.2(2)(b) for Soluble Heavy Metals Content in Substrate

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex 7.

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
B6+B7+B8	Black plastic (shell of wire) + Orange plastic (on telecontrol) + White plastic (body of telecontrol)	/	/
A18+A19+B2	Transparent/ red plastic (on telecontrol) + White plastic (on telecontrol) + White plastic (body)	/	/
B3+B4+B5	Black plastic (wire) + Red plastic (wire) + White plastic (wire)	/	/
A3+A4+A5	White plastic (wing) + Red plastic (wing) + White plastic (axis of wing)	/	/
A6+A7+A8	White plastic (body) + Transparent plastic (LED) + Blue/ golden/ transparent plastic (all battery case)	/	/
A9+A10+A11	Black plastic (wire) + Red plastic (wire) + Beige plastic (all linker of wire)	/	/
A15+A16+A17	Black plastic (body of screw) + Shining black plastic (cap) + Black plastic (body of telecontrol)	/	/
B5	White plastic (wire)	/	/
A12+A13+A14	Black plastic (on-off switch) + Transparent/ red plastic (case of USB) + Black plastic (plug of USB)	/	/

Total Element(s)	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Maximum Allowable Limit (mg/kg)	25	1000	75	60	60	90	60	500

	Unit	Result				
Test Item(s)	-	B6+B7 +B8	A18+A19 +B2	B3+B4 +B5	A3+A4 +A5	A6+A7 +A8
Parameter	-	-	-	-	-	-
Total Arsenic (As)	mg/kg	<5	<5	<5	<5	50.2
Total Barium (Ba)	mg/kg	5.33	6.0	136	<5	<5
Total Cadmium (Cd)	mg/kg	<2	<2	4.78	<2	<2
Total Chromium (Cr)	mg/kg	<2	<2	<2	<2	8.67
Total Mercury (Hg)	mg/kg	<5	<5	<5	<5	<5
Total Lead (Pb)	mg/kg	<10	<10	<10	<10	<10
Total Antimony (Sb)	mg/kg	<10	<10	<10	<10	<10
Total Selenium (Se)	mg/kg	<15	<15	<15	<15	<15
Conclusion	-	PASS	PASS	PASS	PASS	PASS

	Unit	Result
-		



Test Item(s)	-	A9+A10+A11	A15+A16+A17	B5	A12+A13+A14
Parameter	-	-	-	-	-
Total Arsenic (As)	mg/kg	<5	<5	<5	<5
Total Barium (Ba)	mg/kg	14.6	870*	7.53	<5
Total Cadmium (Cd)	mg/kg	<2	3.17	<2	<2
Total Chromium (Cr)	mg/kg	<2	7.59	<2	<2
Total Mercury (Hg)	mg/kg	<5	<5	<5	<5
Total Lead (Pb)	mg/kg	<10	<10	<10	<10
Total Antimony (Sb)	mg/kg	<10	92.2*	<10	<10
Total Selenium (Se)	mg/kg	<15	<15	<15	<15
Conclusion	-	PASS	DATA	PASS	PASS

Note / Key :

ND = Not detected ">" = Greater than NR = Not requested
% = percent mg/kg = milligram(s) per kilogram = ppm = part(s) per million
Detection Limit (mg/kg) :
For Nonmetallic material(s) - As : 16 ; Ba : 10 ; Cd : 10 ; Cr : 10 ; Hg : 10 ; Pb : 10 ; Sb : 30 ; Se : 50
For Metallic material(s) - As : 10 ; Ba : 50 ; Cd : 10 ; Cr : 10 ; Hg : 10 ; Pb : 10 ; Sb : 20 ; Se : 50

Remark :

- Test Item(s) with total heavy metals content in substrate exceeding 80 % of this maximum allowable limit based on the lowest weight component or this maximum allowable limit should be considered as data and further tested by soluble heavy metals analysis of ASTM International Standard ASTM F963-17, Section 8.3.5 (Excluding 8.3.5.5(3)) as specified in Section 8.3.1.3.
- Although the Test Item(s) complies (comply) with the above requirement, it is possible that, if tested separately, one or more of the constituents of this (these) Test Item(s) may not comply with this requirement. Separate testing on this (these) Test Item(s) is recommended to discern the failed constituent(s).



Soluble Heavy Metals Content in Substrate - ASTM International Standard ASTM F963-17, Section 4.3.5.2(b)

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.5 (Excluding 8.3.5.5(3)).

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
B6	Black plastic (shell of wire)	/	/
A3	White plastic (wing)	/	/
A4	Red plastic (wing)	/	/
A5	White plastic (axis of wing)	/	/
A6	White plastic (body)	/	/
A7	Transparent plastic (LED)	/	/
A8	Blue/ golden/ transparent plastic (all battery case)	/	/
A9	Black plastic (wire)	/	/
A10	Red plastic (wire)	/	/
A12	Black plastic (on-off switch)	/	/
A13	Transparent/ red plastic (case of USB)	/	/
A14	Black plastic (plug of USB)	/	/
A15	Black plastic (body of screw)	/	/
A16	Shining black plastic (cap)	/	/
A17	Black plastic (body of telecontrol)	/	/
A18	Transparent/ red plastic (on telecontrol)	/	/
A19	White plastic (on telecontrol)	/	/
B2	White plastic (body)	/	/
B3	Black plastic (wire)	/	/
B4	Red plastic (wire)	/	/
B7	Orange plastic (on telecontrol)	/	/
B8	White plastic (body of telecontrol)	/	/
A11	Beige plastic (all linker of wire)	/	/
B5	White plastic (wire)	/	/

Soluble Element(s)	As	Ba	Cd	Cr	Hg	Pb	Sb	Se
Maximum Allowable Limit (mg/kg)	25	1000	75	60	60	90	60	500
Analytical Correction (%)	60	30	30	30	50	30	60	60

-	Unit	Result				
Test Item(s)	-	B6	A3	A4	A5	A6
Parameter	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-
Soluble Arsenic (As)	mg/kg	ND	ND	ND	ND	ND
Soluble Barium (Ba)	mg/kg	ND	ND	ND	ND	ND
Soluble Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND
Soluble Chromium (Cr)	mg/kg	ND	ND	ND	ND	ND
Soluble Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND
Soluble Selenium (Se)	mg/kg	ND	ND	ND	ND	ND



Soluble Lead (Pb)	mg/kg	ND	ND	ND	ND	ND
Soluble Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND
Conclusion	-	PASS	PASS	PASS	PASS	PASS

-	Unit	Result				
Test Item(s)	-	A7	A8	A9	A10	A12
Parameter	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-
Soluble Arsenic (As)	mg/kg	ND	ND	ND	ND	ND
Soluble Barium (Ba)	mg/kg	ND	ND	ND	ND	ND
Soluble Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND
Soluble Chromium (Cr)	mg/kg	ND	ND	ND	ND	ND
Soluble Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND
Soluble Selenium (Se)	mg/kg	ND	ND	ND	ND	ND
Soluble Lead (Pb)	mg/kg	ND	ND	ND	ND	ND
Soluble Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND
Conclusion	-	PASS	PASS	PASS	PASS	PASS

-	Unit	Result				
Test Item(s)	-	A13	A14	A15	A16	A17
Parameter	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-
Soluble Arsenic (As)	mg/kg	ND	ND	ND	ND	ND
Soluble Barium (Ba)	mg/kg	ND	ND	ND	ND	ND
Soluble Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND
Soluble Chromium (Cr)	mg/kg	ND	ND	ND	ND	ND
Soluble Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND
Soluble Selenium (Se)	mg/kg	ND	ND	ND	ND	ND
Soluble Lead (Pb)	mg/kg	ND	ND	ND	ND	ND
Soluble Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND
Conclusion	-	PASS	PASS	PASS	PASS	PASS

-	Unit	Result				
Test Item(s)	-	A18	A19	B2	B3	B4
Parameter	-	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-	-
Soluble Arsenic (As)	mg/kg	ND	ND	ND	ND	ND
Soluble Barium (Ba)	mg/kg	ND	ND	ND	ND	ND
Soluble Cadmium (Cd)	mg/kg	ND	ND	ND	ND	ND
Soluble Chromium (Cr)	mg/kg	ND	ND	ND	ND	ND
Soluble Antimony (Sb)	mg/kg	ND	ND	ND	ND	ND
Soluble Selenium (Se)	mg/kg	ND	ND	ND	ND	ND
Soluble Lead (Pb)	mg/kg	ND	ND	ND	ND	ND
Soluble Mercury (Hg)	mg/kg	ND	ND	ND	ND	ND
Conclusion	-	PASS	PASS	PASS	PASS	PASS

-	Unit	Result			
Test Item(s)	-	B7	B8	A11	B5
Parameter	-	-	-	-	-
Mass of Trace Amount	g	-	-	-	-
Soluble Arsenic (As)	mg/kg	ND	ND	ND	ND
Soluble Barium (Ba)	mg/kg	ND	ND	ND	ND



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Soluble Cadmium (Cd)	mg/kg	ND	ND	ND	ND
Soluble Chromium (Cr)	mg/kg	ND	ND	ND	ND
Soluble Antimony (Sb)	mg/kg	ND	ND	ND	ND
Soluble Selenium (Se)	mg/kg	ND	ND	ND	ND
Soluble Lead (Pb)	mg/kg	ND	ND	ND	ND
Soluble Mercury (Hg)	mg/kg	ND	ND	ND	ND
Conclusion	-	PASS	PASS	PASS	PASS

Note / Key :

ND = Not detected

">" = Greater than

NR = Not requested

% = percent

g = gram(s)

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Detection Limit (mg/kg) - As : 2.5 ; Ba : 100 ; Cd : 7.5 ; Cr : 6.0 ; Hg : 6.0 ; Pb : 9.0 ; Sb : 6.0 ; Se : 50

Remark :

- ^C denotes as reported result(s) was (were) adjusted by analytical correction shown in limit table.
 - The received sample(s) contained accessible substrate material(s) of less than 10 milligrams by weight on one single sample, therefore such substrate material(s) was (were) not subject to the soluble elements content analysis of ASTM International Standard ASTM F963-17, Section 4.3.5.2(2)(b), as specified in Section 8.3.5.3(2).
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Phthalates Content in Toys, Child Care Articles and Children Watches - California Proposition 65

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A1+A2+B1	Black coating (on shell) + Silvery coating (on shell) + Red coating (on shell)	/	/
B6+B7+B8	Black plastic (shell of wire) + Orange plastic (on telecontrol) + White plastic (body of telecontrol)	/	/
A3+A4+A5	White plastic (wing) + Red plastic (wing) + White plastic (axis of wing)	/	/
A9+A10+A11	Black plastic (wire) + Red plastic (wire) + Beige plastic (all linker of wire)	/	/
A15+A16+A17	Black plastic (body of screw) + Shining black plastic (cap) + Black plastic (body of telecontrol)	/	/
A18+A19+B2	Transparent/ red plastic (on telecontrol) + White plastic (on telecontrol) + White plastic (body)	/	/
A6	White plastic (body)	/	/
A7	Transparent plastic (LED)	/	/
A8	Blue/ golden/ transparent plastic (all battery case)	/	/
A13	Transparent/ red plastic (case of USB)	/	/
A14	Black plastic (plug of USB)	/	/
B4	Red plastic (wire)	/	/
B5	White plastic (wire)	/	/

Maximum Allowable Limit :	Each 0.1 %
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Test Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
A1+A2+B1	Dibutyl phthalate (DBP)	<0.005	%	PASS
	Butyl benzyl phthalate (BBP)	<0.005	%	
	Di-2-ethylhexyl phthalate (DEHP)	<0.005	%	
	Di-iso-decyl phthalate (DIDP)	<0.005	%	
	Di-n-hexyl phthalate (DNHP)	<0.005	%	
B6+B7+B8	Dibutyl phthalate (DBP)	<0.005	%	PASS
	Butyl benzyl phthalate (BBP)	<0.005	%	
	Di-2-ethylhexyl phthalate (DEHP)	<0.005	%	
	Di-iso-decyl phthalate (DIDP)	<0.005	%	
	Di-n-hexyl phthalate (DNHP)	<0.005	%	
A3+A4+A5	Dibutyl phthalate (DBP)	<0.005	%	PASS
	Butyl benzyl phthalate (BBP)	<0.005	%	
	Di-2-ethylhexyl phthalate (DEHP)	<0.005	%	
	Di-iso-decyl phthalate (DIDP)	<0.005	%	
	Di-n-hexyl phthalate (DNHP)	<0.005	%	



A9+A10+A11	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-iso-decyl phthalate (DIDP) Di-n-hexyl phthalate (DNHP)	0.024 <0.005 <0.005 <0.005 <0.005	% % % % %	PASS
A15+A16+A17	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-iso-decyl phthalate (DIDP) Di-n-hexyl phthalate (DNHP)	<0.005 <0.005 0.011 <0.005 <0.005	% % % % %	PASS
A18+A19+B2	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-iso-decyl phthalate (DIDP) Di-n-hexyl phthalate (DNHP)	<0.005 <0.005 <0.005 <0.005 <0.005	% % % % %	PASS
A6	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-iso-decyl phthalate (DIDP) Di-n-hexyl phthalate (DNHP)	<0.005 <0.005 <0.005 <0.005 <0.005	% % % % %	PASS
A7	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-iso-decyl phthalate (DIDP) Di-n-hexyl phthalate (DNHP)	<0.005 <0.005 <0.005 <0.005 <0.005	% % % % %	PASS
A8	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-iso-decyl phthalate (DIDP) Di-n-hexyl phthalate (DNHP)	<0.005 <0.005 <0.005 <0.005 <0.005	% % % % %	PASS
A13	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-iso-decyl phthalate (DIDP) Di-n-hexyl phthalate (DNHP)	<0.005 <0.005 <0.005 <0.005 <0.005	% % % % %	PASS
A14	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-iso-decyl phthalate (DIDP) Di-n-hexyl phthalate (DNHP)	<0.005 <0.005 <0.005 <0.005 <0.005	% % % % %	PASS
B4	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-iso-decyl phthalate (DIDP) Di-n-hexyl phthalate (DNHP)	<0.005 <0.005 <0.005 <0.005 <0.005	% % % % %	PASS
B5	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-iso-decyl phthalate (DIDP) Di-n-hexyl phthalate (DNHP)	<0.005 <0.005 <0.005 <0.005 <0.005	% % % % %	PASS

Note / Key :

ND = Not detected ">" = Greater than Conc. = Concentration
% = percent 1 % = 10 000 mg/kg
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
Detection Limit (%) : Each : 0.005

Remark :



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- The list of phthalates is summarized in table of Appendix.
- Accessible plastic materials, plasticizer print, scrapable surface coatings, decals, unscrapable polymeric coated materials, adhesives and sealants, toy nail polish, reusable packaging, electrical plug and cables of toys and child care articles are applicable to be tested with the exclusion for adhesive for stickers.
- All accessible plastic substrates of children watches are applicable to be tested.
- Vendor is responsible for the compliance of all other material(s) which was (were) not tested above.
- Product(s) with phthalate(s) content exceeding this maximum allowable limit has (have) to reformulate.

APPENDIX

List of Phthalates [California Proposition 65 - Toys, Child Care Articles And Children Watches]:					
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	Butyl benzyl phthalate (BBP)	85-68-7	4	Di-iso-decyl phthalate (DIDP)	26761-40-0
2	Dibutyl phthalate (DBP)	84-74-2	5	Di-n-hexyl phthalate (DnHP)	84-75-3
3	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	-	-	-
CAS-No. = Chemical Abstracts Service registry number					



Phthalates Content – United States Consumer Product Safety Improvement Act (CPSIA)

Method:	Sample was extracted with organic solvent and then analysed by Liquid Chromatograph Mass Spectrometer / Gas Chromatograph Mass Spectrometer.
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Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A1+A2+B1	Black coating (on shell) + Silvery coating (on shell) + Red coating (on shell)	/	/
B6+B7+B8	Black plastic (shell of wire) + Orange plastic (on telecontrol) + White plastic (body of telecontrol)	/	/
A3+A4+A5	White plastic (wing) + Red plastic (wing) + White plastic (axis of wing)	/	/
A9+A10+A11	Black plastic (wire) + Red plastic (wire) + Beige plastic (all linker of wire)	/	/
A15+A16+A17	Black plastic (body of screw) + Shining black plastic (cap) + Black plastic (body of telecontrol)	/	/
A18+A19+B2	Transparent/ red plastic (on telecontrol) + White plastic (on telecontrol) + White plastic (body)	/	/
A6	White plastic (body)	/	/
A7	Transparent plastic (LED)	/	/
A8	Blue/ golden/ transparent plastic (all battery case)	/	/
A13	Transparent/ red plastic (case of USB)	/	/
A14	Black plastic (plug of USB)	/	/
B4	Red plastic (wire)	/	/
B5	White plastic (wire)	/	/

Client's Limit :	Each 0.1 %
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Test Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
A1+A2+B1	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-n-octyl phthalate (DNOP) Di-iso-decyl phthalate (DIDP) Di-iso-nonyl phthalate (DINP)	<0.005 <0.005 <0.005 <0.005 <0.005 <0.005	% % % % % %	PASS
B6+B7+B8	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-n-octyl phthalate (DNOP) Di-iso-decyl phthalate (DIDP) Di-iso-nonyl phthalate (DINP)	<0.005 <0.005 <0.005 <0.005 <0.005 <0.005	% % % % % %	PASS



A3+A4+A5	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-n-octyl phthalate (DNOP) Di-iso-decyl phthalate (DIDP) Di-iso-nonyl phthalate (DINP)	<0.005 <0.005 <0.005 <0.005 <0.005 <0.005	% % % % % %	PASS
A9+A10+A11	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-n-octyl phthalate (DNOP) Di-iso-decyl phthalate (DIDP) Di-iso-nonyl phthalate (DINP)	0.024 <0.005 <0.005 <0.005 <0.005 <0.005	% % % % % %	PASS
A15+A16+A17	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-n-octyl phthalate (DNOP) Di-iso-decyl phthalate (DIDP) Di-iso-nonyl phthalate (DINP)	<0.005 <0.005 0.011 <0.005 <0.005 <0.005	% % % % % %	PASS
A18+A19+B2	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-n-octyl phthalate (DNOP) Di-iso-decyl phthalate (DIDP) Di-iso-nonyl phthalate (DINP)	<0.005 <0.005 <0.005 <0.005 <0.005 <0.005	% % % % % %	PASS
A6	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-n-octyl phthalate (DNOP) Di-iso-decyl phthalate (DIDP) Di-iso-nonyl phthalate (DINP)	<0.005 <0.005 <0.005 <0.005 <0.005 <0.005	% % % % % %	PASS
A7	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-n-octyl phthalate (DNOP) Di-iso-decyl phthalate (DIDP) Di-iso-nonyl phthalate (DINP)	<0.005 <0.005 <0.005 <0.005 <0.005 <0.005	% % % % % %	PASS
A8	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-n-octyl phthalate (DNOP) Di-iso-decyl phthalate (DIDP) Di-iso-nonyl phthalate (DINP)	<0.005 <0.005 <0.005 <0.005 <0.005 <0.005	% % % % % %	PASS
A13	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-n-octyl phthalate (DNOP) Di-iso-decyl phthalate (DIDP) Di-iso-nonyl phthalate (DINP)	<0.005 <0.005 <0.005 <0.005 <0.005 <0.005	% % % % % %	PASS
A14	Dibutyl phthalate (DBP) Butyl benzyl phthalate (BBP) Di-2-ethylhexyl phthalate (DEHP) Di-n-octyl phthalate (DNOP) Di-iso-decyl phthalate (DIDP) Di-iso-nonyl phthalate (DINP)	<0.005 <0.005 <0.005 <0.005 <0.005 <0.005	% % % % % %	PASS



B4	Dibutyl phthalate (DBP)	<0.005	%	PASS
	Butyl benzyl phthalate (BBP)	<0.005	%	
	Di-2-ethylhexyl phthalate (DEHP)	<0.005	%	
	Di-n-octyl phthalate (DNOP)	<0.005	%	
	Di-iso-decyl phthalate (DIDP)	<0.005	%	
	Di-iso-nonyl phthalate (DINP)	<0.005	%	
B5	Dibutyl phthalate (DBP)	<0.005	%	PASS
	Butyl benzyl phthalate (BBP)	<0.005	%	
	Di-2-ethylhexyl phthalate (DEHP)	<0.005	%	
	Di-n-octyl phthalate (DNOP)	<0.005	%	
	Di-iso-decyl phthalate (DIDP)	<0.005	%	
	Di-iso-nonyl phthalate (DINP)	<0.005	%	

Note / Key :

ND = Not detected

% = percent

Detection Limit (%) : Each 0.005

">" = Greater than

1 % = 10000 mg/kg

Conc. = Concentration

mg/kg = milligram(s) per kilogram

Remark :

- The list of phthalates is summarized in table of Appendix.

APPENDIX

List of Phthalates :					
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	Butyl benzyl phthalate (BBP)	85-68-7	4	Di-n-octyl phthalate (DNOP)	117-84-0
2	Dibutyl phthalate (DBP)	84-74-2	5	Di-iso-nonyl phthalate (DINP)	28553-12-0
3	Di-2-ethylhexyl phthalate (DEHP)	117-81-7	6	Di-iso-decyl phthalate (DIDP)	26761-40-0



Phthalates Content in Toys and Childcare Articles - European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Amendments up to EU No. 412/2012, Annex XVII, Entry 51

Test Method	:	Sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer.
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Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A1+A2+B1	Black coating (on shell) + Silvery coating (on shell) + Red coating (on shell)	/	/
B6+B7+B8	Black plastic (shell of wire) + Orange plastic (on telecontrol) + White plastic (body of telecontrol)	/	/
A3+A4+A5	White plastic (wing) + Red plastic (wing) + White plastic (axis of wing)	/	/
A9+A10+A11	Black plastic (wire) + Red plastic (wire) + Beige plastic (all linker of wire)	/	/
A15+A16+A17	Black plastic (body of screw) + Shining black plastic (cap) + Black plastic (body of telecontrol)	/	/
A18+A19+B2	Transparent/ red plastic (on telecontrol) + White plastic (on telecontrol) + White plastic (body)	/	/
A6	White plastic (body)	/	/
A7	Transparent plastic (LED)	/	/
A8	Blue/ golden/ transparent plastic (all battery case)	/	/
A13	Transparent/ red plastic (case of USB)	/	/
A14	Black plastic (plug of USB)	/	/
B4	Red plastic (wire)	/	/
B5	White plastic (wire)	/	/

Test Parameter:	BBP	DBP	DEHP	SUM	-
Limit (%):	0.1 (Sum)				-
Test Item(s)	Result (%)				Conclusion
A1+A2+B1	ND	ND	ND	ND	PASS
B6+B7+B8	ND	ND	ND	ND	PASS
A3+A4+A5	ND	ND	ND	ND	PASS
A9+A10+A11	0.024	ND	ND	0.024	PASS
A15+A16+A17	ND	ND	0.011	0.011	PASS
A18+A19+B2	ND	ND	ND	ND	PASS
A6	ND	ND	ND	ND	PASS
A7	ND	ND	ND	ND	PASS
A8	ND	ND	ND	ND	PASS
A13	ND	ND	ND	ND	PASS
A14	ND	ND	ND	ND	PASS



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B4	ND	ND	ND	ND	PASS
B5	ND	ND	ND	ND	PASS

Note / Key :

ND = Not detected

">" = Greater than

Conc. = Concentration

% = percent

1 % = 10 000 mg/kg

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Detection Limit (%) : Each : 0.005

Remark :

- The list of phthalates is summarized in table of Appendix.

APPENDIX

List of Phthalates [European Regulation EC No. 1907/2006, Annex XVII, Entry 51] :					
No.	Name of Analytes	CAS-No. [EC No.]	No.	Name of Analytes	CAS-No. [EC No.]
1	Butyl benzyl phthalate (BBP)	85-68-7 [201-622-7]	3	Di-2-ethylhexyl phthalate (DEHP)	117-81-7 [204-211-0]
2	Dibutyl phthalate (DBP)	84-74-2 [201-557-4]	-	-	-

CAS-No. = Chemical Abstracts Service registry number
EC No. = European Commission number



Phthalates Content in Toys and Childcare Articles which can be placed in the Mouth by Children - European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Amendments up to EU No. 412/2012, Annex XVII, Entry 52

Test Method	:	Sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer.
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Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
A1+A2+B1	Black coating (on shell) + Silvery coating (on shell) + Red coating (on shell)	/	/
B6+B7+B8	Black plastic (shell of wire) + Orange plastic (on telecontrol) + White plastic (body of telecontrol)	/	/
A3+A4+A5	White plastic (wing) + Red plastic (wing) + White plastic (axis of wing)	/	/
A9+A10+A11	Black plastic (wire) + Red plastic (wire) + Beige plastic (all linker of wire)	/	/
A15+A16+A17	Black plastic (body of screw) + Shining black plastic (cap) + Black plastic (body of telecontrol)	/	/
A18+A19+B2	Transparent/ red plastic (on telecontrol) + White plastic (on telecontrol) + White plastic (body)	/	/
A6	White plastic (body)	/	/
A7	Transparent plastic (LED)	/	/
A8	Blue/ golden/ transparent plastic (all battery case)	/	/
A13	Transparent/ red plastic (case of USB)	/	/
A14	Black plastic (plug of USB)	/	/
B4	Red plastic (wire)	/	/
B5	White plastic (wire)	/	/

Test Parameter:	DIDP	DINP	DNOP	SUM	-
Limit (%):	0.1 (Sum)				-
Test Item(s)	Result (%)				Conclusion
A1+A2+B1	ND	ND	ND	ND	PASS
B6+B7+B8	ND	ND	ND	ND	PASS
A3+A4+A5	ND	ND	ND	ND	PASS
A9+A10+A11	ND	ND	ND	ND	PASS
A15+A16+A17	ND	ND	ND	ND	PASS
A18+A19+B2	ND	ND	ND	ND	PASS
A6	ND	ND	ND	ND	PASS
A7	ND	ND	ND	ND	PASS
A8	ND	ND	ND	ND	PASS
A13	ND	ND	ND	ND	PASS
A14	ND	ND	ND	ND	PASS



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B4	ND	ND	ND	ND	PASS
B5	ND	ND	ND	ND	PASS

Note / Key :

ND = Not detected

“>” = Greater than

Conc. = Concentration

% = percent

1 % = 10 000 mg/kg

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Detection Limit (%) : Each : 0.005

Remark :

- The list of phthalates is summarized in table of Appendix.
- Test Item(s) has (have) to comply together with the phthalates requirement of European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Amendments up to EU No. 412/2012, Annex XVII, Entry 51.

APPENDIX

List of Phthalates [European Regulation EC No. 1907/2006, Annex XVII, Entry 52] :					
No.	Name of Analytes	CAS-No. [EC No.]	No.	Name of Analytes	CAS-No. [EC No.]
1	Di-iso-nonyl phthalate (DINP)	28553-12-0 & 68515-48-0 [249-079-5 & 271-090-9]	3	Di-iso-decyl phthalate (DIDP)	26761-40-0 & 68515-49-1 [247-977-1 & 271-091-4]
2	Di-n-octyl phthalate (DNOP)	117-84-0 [204-214-7]	-	-	-

CAS-No. = Chemical Abstracts Service registry number
EC No. = European Commission number



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