

Prepared for:
Sample described as:

No. of samples:	1	Reference number(s):	7130, 7120, 7170, 7160
Date received:	30/03/2018	Date(s) tested:	02/04-28/04/18
Packaging:	None	Declared age:	3+
		Tested age grade:	3+

Description of sample: Simple card board games


I certify that the above mentioned sample has been tested in accordance with the standard(s) specified below and that it complies or otherwise as follows:

EN 71-1:2014	Complies *See remark
EN 71-2:2011+A1:2014	Complies
EN 71-3:2013+A2:2017	Complies
REACH Annex XVII, entry 23 - Total Cadmium	Complies
REACH Annex XVII, entry 51 & 52 - Phthalates	Complies
REACH Annex XVII, entry 50 - Polycyclic Aromatic Hydrocarbons (PAHs)	Complies



Judith Russell
Managing Director

 Date: 31st May 2018

The reported results relate exclusively to the tested sample
Subcontracted to a Eurofins partner lab

Eurofins Product Testing Services Limited
Dunham House, Cross Street,
Sale, M33 7HH
Tel: +44 (0)161 868 7600
Fax: +44 (0)161 868 7699

Registered Office:
154 Business Park, Vallant Way
Wolverhampton, WV6 5QB
Registration Number: 7401860
Vat Number: 887 1276 83

**EN 71-1:2014 - Safety of Toys –
Mechanical & Physical Properties**

Clause	Requirement	Result
4	General requirements	
4.1	Material cleanliness	Pass
4.2	Assembly	N/A
4.3	Flexible plastic sheeting	N/A
4.4	Toy bags	N/A
4.5	Glass	N/A
4.6	Expanding materials	N/A
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.9	Protruding parts	N/A
4.10.1	Folding and sliding mechanisms	N/A
4.10.2	Driving mechanisms	N/A
4.10.3	Hinges	N/A
4.10.4	Springs	N/A
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	N/A
4.12	Balloons	N/A
4.13	Cords of toy kites and other flying toys	N/A
4.14.1	Toys which a child can enter	N/A
4.14.2	Masks and helmets	N/A
4.15.1	Toys propelled by a child or by other means	N/A
4.15.2	Toy bicycles	N/A
4.15.3	Rocking horses and similar toys	N/A
4.15.4	Toys not propelled by a child	N/A
4.15.5	Toy scooters	N/A

Clause	Requirement	Result
4.16	Heavy immobile toys	N/A
4.17.1	Projectiles general	N/A
4.17.2	Projectile toys without stored energy	N/A
4.17.3	Projectile toys with stored energy	N/A
4.17.4	Bows and arrows	N/A
4.18	Aquatic toys and inflatable toys	N/A
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	N/A
4.20	Acoustics	N/A
4.21	Toys containing a non-electrical heat source	N/A
4.22	Small balls	N/A
4.23.1	Magnets general	N/A
4.23.2	Toys other than magnetic/electrical experimental sets intended for children over 8 years	N/A
4.23.3	Magnetic/electrical experimental sets intended for children over 8 years	N/A
4.24	Yo-yo balls	N/A
4.25	Toys attached to food	N/A
5	Toy intended for children under 36 months	
5.1	General requirements	N/A
5.2	Soft-filled toys and soft-filled parts of a toy	N/A
5.3	Plastic sheeting	N/A
5.4	Cords, chains and electrical cables in toys	N/A
5.5	Liquid-filled toys	N/A
5.6	Speed limitation of electrically-driven ride-on toys	N/A
5.7	Glass and porcelain	N/A
5.8	Shape and size of certain toys	N/A

Clause	Requirement	Result
5.9	Toys comprising monofilament fibres	N/A
5.10	Small balls	N/A
5.11	Play figures	N/A
5.12	Hemispheric-shaped toys	N/A
5.13	Suction cups	N/A
5.14	Straps intended to be worn fully or partially around the neck	N/A
6	Packaging	N/A
7	Warnings, markings and instructions for use (Note: It is drawn to your attention that the warnings, precautions and instructions for use should be given in the national language(s) of the country where the product is sold. Only English was reviewed)	
7.1	General	Pass
7.2	Toys not intended for children under 36 months	N/A(*)
7.3	Latex balloons	N/A
7.4	Aquatic toys	N/A
7.5	Functional toys	N/A
7.6	Hazardous sharp functional edges and points	N/A
7.7.1	Toys with projectiles which are able to discharge an object other than that provided with the toy	N/A
7.7.2	Toys capable of discharging a projectile with a kinetic energy greater than 0.08 J	N/A
7.8	Imitation protective masks and helmets	N/A
7.9	Toy kites	N/A
7.10.1	Roller skates, inline skates and skateboards	N/A
7.10.2	Ride-on toys without a braking device	N/A
7.10.3	Electrically-driven ride-on toys	N/A
7.10.4	Instructions for use	N/A

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

Note: P = Pass N/A = Not Applicable

Remark:

* For #7120: On this particular sample no small parts were found on receipt or after testing that necessitate the use of warnings. However, the warnings were assessed and pass the requirements of this clause.

For others: On this particular sample no small parts were found on receipt or after testing that necessitate the use of warnings. However, the warnings were assessed and fail the requirements of this clause

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

Markings and information required by Directive 2009/48/EC		Location	Result
1	CE mark	Packaging	Present
2	Importer's name and address	Packaging	Present
	Manufacturer's name and address	Packaging	Present
3	Product identification	Packaging	Present
4	Washing/Cleaning instruction	/	Not Applicable

Note: P = Pass N/A = Not Applicable

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

Clause	Title	Result
4	Requirements	
4.1	General requirements	Pass
4.2	Toys to be worn on the head	Not applicable
4.3	Toy disguise costumes and toys intended to be worn by a child in play	Not applicable
4.4	Toys intended to be entered by a child	Not applicable
4.5	Soft filled toys with a piled or textile surface	Not applicable

Material list

Item 2	7130
Item 3	7120
Item 4	7170
Item 5	7160

Testing material No.	Component	Item No.
1b	Iridescent adhesive glitter (Box and cards)	2/3/4/5
2	White and black paper (Instruction)	2/3/4/5
4	White paper (Handle)	2/3/4/5
39	Laminated brown and white paper board with multi-color printing and transparent glue (Box)	2/3/4/5
40	Laminated white paper with multi-color printing (Case and basket)	2/3
41	Laminated grey and white paper board with multi-color printing (Cards)	2/3
42	Black plastic (Point)	2
43	Brown plastic (Coins)	2
44	Blue plastic (Base)	2
45	Light blue paper (Handle)	2/3
46	Silvery plastic (Washing machine)	3
47	Laminated white paper with multi-color printing (Meter)	4/5
48	Laminated grey and white paper board with multi-color printing (Cards)	4/5
49	Light yellow paper (Handle)	4/5
50	Translucent double side adhesive tape	4/5
51	Laminated paper with multi-color printing and glue (Box, case, basket, cards, meter)	2/3/4/5
52	Laminated paper with multi-color printing (Box, case, basket, cards, meter)	2/3/4/5

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

Test method : With reference to EN 71-3: 2013 + A2: 2017: Migration of certain elements.
 General Elements analysis was performed by ICP-MS.
 Soluble Chromium(VI) analysis was performed by IC-UV-Vis.
 Soluble Organic Tin analysis was performed by GC-MS.

Element	Limit(mg/kg) Category III	MDL (mg/kg)	Material Test Result (mg/kg)			
			1b	2	4	49
Soluble Aluminium (Al)	70000	10	29	N.D.	20	14
Soluble Antimony (Sb)	560	10	N.D.	N.D.	N.D.	N.D.
Soluble Arsenic (As)	47	10	N.D.	N.D.	N.D.	N.D.
Soluble Barium (Ba)	18750	10	N.D.	N.D.	N.D.	N.D.
Soluble Boron (B)	15000	10	N.D.	14	N.D.	N.D.
Soluble Cadmium (Cd)	17	10	N.D.	N.D.	N.D.	N.D.
Soluble Chromium III (Cr III)	460	5	N.D. ^a	N.D. ^a	N.D.	N.D. ^a
Soluble Chromium VI (Cr VI)	0.2	0.2	N.D. ^a	N.D. ^a	N.D.	N.D. ^a
Soluble Cobalt (Co)	130	10	N.D.	N.D.	N.D.	N.D.
Soluble Copper(Cu)	7700	10	N.D.	N.D.	N.D.	N.D.
Soluble Lead (Pb)	160(23 ^b)	10	N.D.	N.D.	N.D.	N.D.
Soluble Manganese (Mn)	15000	10	N.D.	N.D.	N.D.	N.D.
Soluble Mercury (Hg)	94	10	N.D.	N.D.	N.D.	N.D.
Soluble Nickel (Ni)	930	10	N.D.	N.D.	N.D.	N.D.
Soluble Selenium (Se)	460	10	N.D.	N.D.	N.D.	N.D.
Soluble Strontium (Sr)	56000	10	N.D.	26	N.D.	N.D.
Soluble Tin (Sn)	180000	4.9	N.D.	N.D.	N.D.	N.D.
Soluble Organic Tin	12	0,1	--	--	--	--
Soluble Zinc (Zn)	46000	10	N.D.	N.D.	N.D.	N.D.

Element	Limit(mg/kg) Category III	MDL (mg/kg)	Material Test Result (mg/kg)			
			1b	2	4	49
Soluble Total Chromium	-	0.2	0.25	0.27	N.D.	0.37

Element	Limit(mg/kg) Category III	MDL (mg/kg)	Material Test Result (mg/kg)				
			39	40	41	42	43
Soluble Aluminium (Al)	70000	10	547	38	208	18	N.D.
Soluble Antimony (Sb)	560	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Arsenic (As)	47	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Barium (Ba)	18750	10	18	N.D.	N.D.	N.D.	N.D.
Soluble Boron (B)	15000	10	38	N.D.	18	N.D.	N.D.
Soluble Cadmium (Cd)	17	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Chromium III (Cr III)	460	5	N.D. ^a	N.D. ^a	N.D. ^a	N.D. ^a	N.D.
Soluble Chromium VI (Cr VI)	0.2	0.2	N.D. ^a	N.D. ^a	N.D. ^a	N.D. ^a	N.D.
Soluble Cobalt (Co)	130	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Copper(Cu)	7700	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Lead (Pb)	160(23 ^b)	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Manganese (Mn)	15000	10	14	N.D.	14	N.D.	N.D.
Soluble Mercury (Hg)	94	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Nickel (Ni)	930	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Selenium (Se)	460	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Strontium (Sr)	56000	10	27	20	35	N.D.	N.D.
Soluble Tin (Sn)	180000	4.9	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Organic Tin	12	0.1	--	--	--	--	--
Soluble Zinc (Zn)	46000	10	15	N.D.	N.D.	N.D.	N.D.

Element	Limit(mg/kg) Category III	MDL (mg/kg)	Material Test Result (mg/kg)				
			39	40	41	42	43
Soluble Total Chromium	-	0.2	0.62	0.27	2.84	0.34	N.D.

Element	Limit(mg/kg) Category III	MDL (mg/kg)	Material Test Result (mg/kg)				
			44	45	46	47	48
Soluble Aluminium (Al)	70000	10	N.D.	13	N.D.	15	177
Soluble Antimony (Sb)	560	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Arsenic (As)	47	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Barium (Ba)	18750	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Boron (B)	15000	10	N.D.	N.D.	N.D.	N.D.	13
Soluble Cadmium (Cd)	17	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Chromium III (Cr III)	460	5	N.D.	N.D.	N.D.	N.D. ^a	N.D. ^a
Soluble Chromium VI (Cr VI)	0.2	0.2	N.D.	N.D.	N.D.	N.D. ^a	N.D. ^a
Soluble Cobalt (Co)	130	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Copper (Cu)	7700	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Lead (Pb)	180(23 ^b)	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Manganese (Mn)	15000	10	N.D.	N.D.	N.D.	N.D.	16
Soluble Mercury (Hg)	94	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Nickel (Ni)	930	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Selenium (Se)	460	10	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Strontium (Sr)	56000	10	N.D.	N.D.	N.D.	21	24
Soluble Tin (Sn)	180000	4.9	N.D.	N.D.	N.D.	N.D.	N.D.
Soluble Organic Tin	12	0.1	--	--	--	--	--
Soluble Zinc (Zn)	46000	10	N.D.	N.D.	N.D.	N.D.	11

Element	Limit(mg/kg) Category III	MDL (mg/kg)	Material Test Result (mg/kg)				
			44	45	46	47	48
Soluble Total Chromium	-	0.2	N.D.	N.D.	N.D.	0.22	3.11

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

- N.D. = Not Detected

- MDL = Method Detection Limit

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

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

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

^b Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3: 2013 + A2: 2017.

^c Proposal of stricter migration limit for Lead according to the Council Directive (EU) 2017/738, which is expected to enter into force from 28 October 2018.

Total Cadmium Content

Test method : EPA 3051A: 2007, EPA 3052: 1996, EPA 6010D: 2014,
 Detection limit : 10 mg/kg
 Limit : See below - according to Entry 23 of Annex XVII to Regulation (EC) No 1907/2006 and its amendments Regulation (EC) No 552/2009, (EU) No 494/2011, (EU) No 835/2012 and (EU) No 2016/217,

Material(s)	Limit (mg/kg)
- Paints (wet state); - Plastics; - Brazing fillers; - Metal parts in jewelry;	100
- Paints on a painted article; - Paints with zinc content exceeding 10% by weight of the paint; - Recovered PVC used in article marked with "Contains recovered PVC" or with the designated pictogram.	1000

Test No.	Material No.	Test result (mg/kg)
Cd-1	1b	N.D.
Cd-2	42+43+44	N.D.
Cd-3	46+50	N.D.
Cd-4	47	N.D.
Cd-5	51	N.D.

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

Observations:

Annex XVII of Regulation (EC) No 1907/2006 concerning restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles requires that mixtures and articles produced from synthetic organic polymers (plastic material) shall not be placed on the market if the concentration of cadmium (expressed as Cd metal) is equal to or greater than 0.01 % by weight of the plastic material or equal or greater than 0.1% by weight of the paint on the painted article.

The cadmium content of the components tested was less than the maximum permitted by the regulation.

Phthalates (*1)

- Test method : Extraction by organic solvent, determination by GC-MS.
- Limit : See below - according to Entry 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).
- Detection limit : 0.005% per substance

A: For toys and childcare articles:

Test No.			Phthalates-1
Material No.			51
Parameter	CAS No.	Unit	Test result
Dibutylphthalate (DBP)	84-74-2	%	N.D.
Benzylbutylphthalate (BBP)	85-68-7	%	N.D.
Diethylhexylphthalate (DEHP)	117-81-7	%	N.D.
Sum (DBP + BBP + DEHP)	--	%	N.D.
Limit (sum)	--	%	0.1

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

Test No.			Phthalates-1
Material No.			51
Parameter	CAS No.	Unit	Test result
Di-n-octylphthalate (DNOP)	117-84-0	%	N.D.
Diisodecylphthalate (DIDP)	26761-40-0	%	N.D.
Diisononylphthalate (DINP)	28553-12-0	%	N.D.
Sum (DNOP+ DIDP+ DINP)	--	%	N.D.
Limit (sum)	--	%	0.1

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

Remark:

*1. According to the customer's requirement, the appointed material has been tested.

Observation:

Annex XVII of Regulation (EC) No 1907/2006 concerning restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, which is enforced and executed in the UK by the REACH Enforcement Regulations 2006, requires that no person shall supply a toy or childcare article containing bis (2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP), or benzyl butyl phthalate (BBP) in a concentration greater than 0.1% by mass of the plasticised material.

Additionally; no person shall supply a toy or childcare article which **can be placed in the mouth** by children containing di-"isononyl" phthalate (DINP), di- "isodecyl" phthalate (DIDP) or di-n-octyl phthalate (DNOP) in a concentration greater than 0.1% by mass of the plasticised material.

The concentration of the restricted phthalates in the components tested was less than the maximum permitted by the Regulation.

Polycyclic Aromatic Hydrocarbons (PAHs) (*2)

- Test method : Solvent extraction and quantification by gas chromatography-mass selective detection (GC-MS) with respect to AfPS GS 2014:01 PAK (PAK=PAHs) requirement
- Detection limit : 0.20 mg/kg per each PAH.
- Requirement : According to the Entry 50 of Annex XVII to REACH Regulation (EC) No 1907/2006 and its amendment Regulation (EU) No 1272/2013.

Parameter	Category 1	Category 2
	Rubber or plastic components 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 in general public article	Rubber or plastic components 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 in toys, including activity toys, and childcare articles
Benzo[a]pyrene (BaP) (mg/kg)	1	0.5
Each of other PAHs (mg/kg)	1	0.5
Sum of 8 PAHs (mg/kg)	-	-

Test No.	PAHs-1	PAHs-2	PAHs-3		
Material No.	52	42+43	44+46		
Parameter	CAS No.	Unit	Category 2	Category 2	Category 2
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	N.D.	N.D.	N.D.
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	N.D.	N.D.	N.D.
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	N.D.	N.D.	N.D.
Benzo[k]fluoranthene (BkFA)	207-06-9	mg/kg	N.D.	N.D.	N.D.
Chrysene (CHR)	218-01-9	mg/kg	N.D.	N.D.	N.D.
Dibenz[a,h]anthracene (DBAhA)	53-70-3	mg/kg	N.D.	N.D.	N.D.
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	N.D.	N.D.	N.D.
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	N.D.	N.D.	N.D.
Sum of PAHs	-	mg/kg	N.D.	N.D.	N.D.

Test No.			PAHs-4
Material No.			47
Parameter	CAS No.	Unit	Category 2
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	N.D.
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	N.D.
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	N.D.
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	N.D.
Chrysene (CHR)	218-01-9	mg/kg	N.D.
Dibenz[a,h]anthracene (DBA _h A)	53-70-3	mg/kg	N.D.
Benzo[<i>j</i>]fluoranthene (BjFA)	205-82-3	mg/kg	N.D.
Benzo[<i>e</i>]pyrene (BeP)	192-97-2	mg/kg	N.D.
Sum of PAHs	-	mg/kg	N.D.

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

Remark:

*2. According to the customer's requirement, the appointed material has been tested.

Observations:

Annex XVII of Regulation (EC) No 1907/2006 concerning restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles requires that mixtures and articles shall not be placed on the market as toys if any plastic or rubber components come into direct as well as prolonged or short-term repetitive contact with the human skin or the oral cavity under normal or reasonable foreseeable conditions of use and they contain more than 0.5 mg/kg (0.00005%) by weight of any of the listed PAH's.

The PAH content was less than the maximum permitted by the REACH regulation.

END OF REPORT