TEST REPORT

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The results relate only to the item tested.

NSC-TISI-TIS 17025
TESTING 0417

Number: BKKH18013513

Applicant: PLAN CREATIONS CO., LTD.
8 MOO 8, TRANG-PALIAN RD.,
YANTAKAO, TRANG, THAILAND 92140
ATTN: K.NARONG, K.SUPAPORN

Date: May 14, 2019

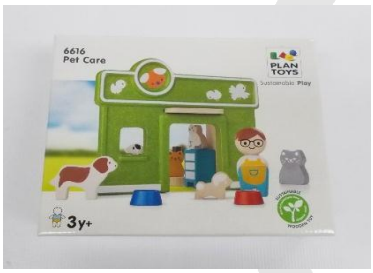
Sample description:

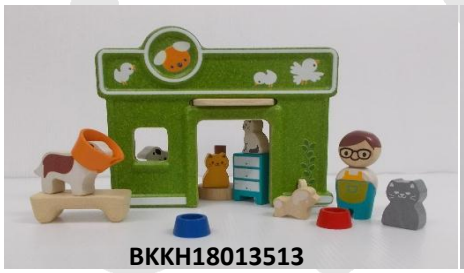
Quantity of sample:	One (1) set
Sample description:	Wooden toy
Date sample received:	October 03, 2018
Date Information received:	May 09, 2019

Client Information:

One (1) set of submitted sample said to be PET CARE

Item Name:	PET CARE
Item Number:	6616





Tests conducted:

As requested by the applicant, for details please refer to attached pages.

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For and on behalf of :
Intertek Testing Services (Thailand) Ltd.,
Hardlines Laboratory

Ladtaka Wongwiboonporn
Laboratory Manager
Hardlines Department

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TEST REPORT

Number: BKKH18013513

Conclusion:

Tested samples	Standard	Result
Submitted samples	EN71-1 : 2014+A1:2018 Mechanical and physical properties	Pass
	EN71-2 : 2011 + A1 : 2014 Flammability test	Pass
	EN71-3 : 2013 + A2 : 2017 and EN71-3 : 2013 + A3 : 2018 Migration of certain elements	Pass**

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Note:

**The chemical test results was not conducted on the below components of samples.
Applicant claimed the components were tested on our previous test report.

Components	Report No.	Date
BLUE COATING ON WOOD (320C)	BKKH18008773	Jul 12, 2018
SAWDUST	BKKH18008767	Jul 10, 2018
PLYWOOD	BKKH18008767	Jul 10, 2018
Orange Coating on Sawdust	BKKH18008869	Jul 10, 2018
Yellow Coating on Sawdust	BKKH18008869	Jul 10, 2018
White Coating on Sawdust	BKKH18008869	Jul 10, 2018
LIGHT GREEN SAWDUST	BKKH18008769	Jul 10, 2018
SOLID WOOD	BKKH18008754	Jul 10, 2018
Blue Coating on Sawdust (No.4)	BKKH18008867	Jul 10, 2018
Brown Coating on Sawdust	BKKH18008867	Jul 10, 2018
Green Coating on Sawdust (No.2)	BKKH18008868	Jul 10, 2018
YELLOW COATING ON WOOD	BKKH18008771	Jul 12, 2018
WHITE COATING ON WOOD	BKKH18008771	Jul 12, 2018
BROWN COATING ON WOOD (8771)	BKKH18008771	Jul 12, 2018
LACQUER COATING ON WOOD	BKKH18008771	Jul 12, 2018
BLACK COATING ON WOOD	BKKH18008772	Jul 18, 2018
RED COATING ON WOOD	BKKH18008770	Jul 12, 2018
GRAY COATING ON WOOD	BKKH18009871S1	Aug 14, 2018
WHITE PLASTIC JOINT	BKKH18008761	Jul 11, 2018
BLUE COATING ON WOOD	BKKH18009125	Jul 18, 2018
BROWN COATING ON WOOD	BKKH18012280	Sep 25, 2018
ORANGE RUBBER	BKKH18016416	Dec 20, 2018

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TEST REPORT

Number: BKKH18013513

Test conducted:

1 Mechanical and Physical Test▲

Test standard: European Standard on Safety of toys EN71-1 : 2014 + A1 : 2018

Age group for testing : For age over 3 years

Clause	Requirements	Assessment
4	General requirements	
4.1	Material cleanliness	P
4.2	Assembly	P
4.3	Flexible plastic sheeting	NA
4.4	Toy bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7	Edges	P
4.8	Points and metallic wires	P
4.9	Protruding parts	NA
4.10	Parts moving against each other	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12	Balloons	NA
4.1	Cords of toy kites and other flying toys	NA

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Test conducted:

Clause	Requirements	Assessment
4.14	Enclosures	NA
4.15	Toys intended to bear the mass of a child	NA
4.16	Heavy immobile toys	NA
4.17	Projectiles	NA
4.18	Aquatic toys and inflatable toys	NA
4.19	Percussion caps specifically designed for use in toys and toys using percussion caps	NA
4.20	Acoustics	NA
4.21	Toys containing non-electrical heat source	NA
4.22	Small balls	NA
4.23	Magnets	NA
4.2	Yo-yo balls	NA
4.25	Toys attached to food	NA
4.26	Toy Disguise Costumes	NA
4.27	Flying toys	NA
5	Toys intended for children under 36 months	
5.1	General requirements for children under 36 months	NA
5.2	Soft-filled toys and soft-filled parts of a toy	NA
5.3	Plastic sheeting	NA
5.4	Cords, chains and electrical cables in toys	NA
5.5	Liquid filled toys	NA
5.6	Speed limitation of electrically-driven ride-on toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size of certain toys	NA
5.9	Toys comprising 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
5.15	Sledges with cords for pulling	NA
6	Packaging	NA
7	Warnings, markings and instructions for use	

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Test conducted:

Clause	Requirements	Assessment
7.1	General	P
7.2	Toys not intended for children under 36 months	P
7.3	Latex balloons	NA
7.4	Aquatic toys	NA
7.5	Functional toys	NA
7.6	Hazardous sharp functional edges and points	NA
7.7	Projectiles	NA
7.8	Imitation protective masks and helmets	NA
7.9	Toy kites	NA
7.10	Roller skates, inlineskates and skateboards and certain other ride-on toys	NA
7.11	Toys intended to be attached to strung across a cradle, cot, or perambulator	NA
7.12	Liquid-filled teethers	NA
7.13	Percussion caps specifically designed for use in toys	NA
7.14	Acoustics	NA
7.15	Toy bicycles	NA
7.16	Toys intended to bear the mass of a child	NA
7.17	Toys comprising monofilament fibres	NA
7.18	Toy scooters	NA
7.19	Rocking horses and similar toys	NA
7.20	Magnetic/electrical experimental sets	NA
7.21	Toys with electrical cables exceeding 300 mm in length	NA
7.22	Toys with cords or chains intended for children of 18 months and over but under 36 months	NA
7.23	Toys intended to be attached to a cradle, cot or perambulator	NA
7.24	Sledges with cords for pulling	NA
7.25	Flying toys	NA
7.26	Improvised projectiles	NA

Abbreviation : P = Pass NA = Not Applicable

Remark: ▲ = Tested items are not included in the TISI Accreditation

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Test conducted:

Below are additional information according to the Toy Safety Directive 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements and not accredited:

Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself. In addition, toys or packagings shall also bear the CE-marking.

After checking, it was found that

	Toy	Packaging
Manufacturer's name	Present	Present
Manufacturer's address	Absent	Present
Importer's name	Absent	Present
Importer's address	Absent	Absent
Product identification code	Present	Present
CE-marking	Absent	Present

Testing period : October 19, 2018 to November 20, 2018

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Test conducted:

2 Flammability Test

As per European Standard on Safety of Toys EN71-2 : 2011 + A1 : 2014.

Clause	Testing items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by a child in play	NA
4.4	Toys intended to be entered by a child	NA
4.5	Soft filled toys	NA

Remark : P = Pass NA = Not applicable

Testing period : October 19, 2018 to November 20, 2018

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Test conducted:

3 19 Toxic elements migration test▲

(A) Test result

With reference to EN 71-3: 2013 + A2 : 2017. Determind by ICP-MS, LC-ICP-MS and GC-MS.
Category (III): Scraped-off toy material

Element (Soluble)	Result (mg/kg)					LOD	LOQ	Limit
	(1)	(2)	(3)	(4)	(5)	(mg/kg)	(mg/kg)	(mg/kg)
Aluminium (Al)	4267	240	<5	719	414	1	5	70000
Antimony (Sb)	ND	ND	ND	ND	ND	1	5	560
Arsenic (As)	ND	ND	ND	ND	ND	0.02	0.1	47
Barium (Ba)	<5	<5	ND	ND	ND	1	5	18750
Boron (B)	16	30	14	24	<5	1	5	15000
Cadmium (Cd)	0.1	ND	0.2	ND	ND	0.02	0.1	17
Chromium (Cr) Δ	0.493	0.042	0.022	0.066	0.017	0.001	0.005	-
Chromium (III) (Cr III)	0.493	NC	NC	NC	NC	-	-	460
Chromium (VI) (Cr VI)	<0.2#	NC	NC	NC	NC	-	0.2	0.2
Cobalt (Co)	ND	ND	ND	ND	ND	0.2	1	130
Copper (Cu)	50	ND	ND	ND	ND	1	5	7700
Lead (Pb)	ND	1	ND	ND	ND	0.2	1	23▲▲
Manganese (Mn)	26	75	52	<5	ND	1	5	15000
Mercury (Hg)	ND	ND	ND	ND	ND	0.2	1	94
Nickel (Ni)	<5	ND	ND	ND	ND	1	5	930
Selenium (Se)	ND	ND	ND	ND	ND	1	5	460
Strontium (Sr)	ND	17	12	ND	ND	1	5	56000
Tin (Sn) ΔΔ	ND	ND	ND	ND	ND	0.2	1	180000
Organic tin	NC	NC	NC	NC	NC	1	3	12
Zinc (Zn)	30	32	63	555	185	1	5	46000

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Test conducted:

19 Toxic elements migration test▲

(A) Test result

With reference to EN 71-3: 2013 + A2 : 2017. Determine by ICP-MS, LC-ICP-MS and GC-MS.
Category (III): Scraped-off toy material

Element (Soluble)	Result (mg/kg)					LOD	LOQ	Limit
	(6)	(7)	(8)	(9)	(10)	(mg/kg)	(mg/kg)	(mg/kg)
Aluminium (Al)	844	10	ND	521	410	1	5	70000
Antimony (Sb)	ND	ND	ND	ND	ND	1	5	560
Arsenic (As)	ND	ND	ND	ND	ND	0.02	0.1	47
Barium (Ba)	ND	<5	7	ND	ND	1	5	18750
Boron (B)	8	42	<5	19	15	1	5	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	0.02	0.1	17
Chromium (Cr) Δ	0.176	0.02	0.033	0.029	0.037	0.001	0.005	-
Chromium (III) (Cr III)	NC	NC	NC	NC	NC	-	-	460
Chromium (VI) (Cr VI)	NC	NC	NC	NC	NC	-	-	0.2
Cobalt (Co)	ND	ND	ND	ND	ND	0.2	1	130
Copper (Cu)	ND	ND	ND	ND	ND	1	5	7700
Lead (Pb)	ND	1	2	ND	ND	0.2	1	23▲▲
Manganese (Mn)	<5	82	64	<5	<5	1	5	15000
Mercury (Hg)	ND	ND	ND	ND	ND	0.2	1	94
Nickel (Ni)	ND	ND	ND	ND	ND	1	5	930
Selenium (Se)	ND	ND	ND	ND	ND	1	5	460
Strontium (Sr)	ND	20	11	ND	ND	1	5	56000
Tin (Sn) ΔΔ	ND	ND	ND	ND	ND	0.2	1	180000
Organic tin	NC	NC	NC	NC	NC	1	3	12
Zinc (Zn)	11	13	19	362	310	1	5	46000

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Test conducted:

19 Toxic elements migration test▲

(A) Test result

With reference to EN 71-3: 2013 + A2 : 2017. Determine by ICP-MS, LC-ICP-MS and GC-MS.
Category (III): Scraped-off toy material

Element (Soluble)	Result (mg/kg)					LOD	LOQ	Limit
	(11)	(12)	(13)	(14)	(15)	(mg/kg)	(mg/kg)	(mg/kg)
Aluminium (Al)	520	939	4124	80	10	1	5	70000
Antimony (Sb)	ND	ND	ND	ND	ND	1	5	560
Arsenic (As)	ND	0.2	0.1	ND	ND	0.02	0.1	47
Barium (Ba)	ND	<5	10	572	<5	1	5	18750
Boron (B)	19	27	8	11	35	1	5	15000
Cadmium (Cd)	ND	<0.1	ND	ND	ND	0.02	0.1	17
Chromium (Cr) Δ	0.023	0.504	0.507	0.201	0.168	0.001	0.005	-
Chromium (III) (Cr III)	NC	0.504	0.507	0.201	NC	-	-	460
Chromium (VI) (Cr VI)	NC	<0.2#	<0.2#	<0.2#	NC	-	0.2	0.2
Cobalt (Co)	ND	ND	ND	ND	ND	0.2	1	130
Copper (Cu)	ND	7	ND	ND	ND	1	5	7700
Lead (Pb)	ND	2	<1	<1	<1	0.2	1	23▲▲
Manganese (Mn)	<5	30	9	21	23	1	5	15000
Mercury (Hg)	ND	ND	ND	ND	ND	0.2	1	94
Nickel (Ni)	ND	ND	ND	ND	ND	1	5	930
Selenium (Se)	ND	ND	ND	ND	ND	1	5	460
Strontium (Sr)	ND	<5	ND	<5	6	1	5	56000
Tin (Sn) ΔΔ	ND	ND	ND	ND	ND	0.2	1	180000
Organic tin	NC	NC	NC	NC	NC	1	3	12
Zinc (Zn)	749	59	100	15	26453	1	5	46000

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TEST REPORT

Number: BKKH18013513

Test conducted:

19 Toxic elements migration test▲

(A) Test result

With reference to EN 71-3: 2013 + A2 : 2017. Determine by ICP-MS, LC-ICP-MS and GC-MS.
Category (III): Scraped-off toy material

Element (Soluble)	Result (mg/kg)					LOD	LOQ	Limit
	(16)	(17)	(18)	(19)	(20)	(mg/kg)	(mg/kg)	(mg/kg)
Aluminium (Al)	16	237	677	ND	3232	1	5	70000
Antimony (Sb)	ND	ND	ND	ND	ND	1	5	560
Arsenic (As)	ND	ND	ND	ND	ND	0.02	0.1	47
Barium (Ba)	5	604	<5	ND	1215	1	5	18750
Boron (B)	19	<5	11	ND	14	1	5	15000
Cadmium (Cd)	ND	ND	ND	ND	ND	0.02	0.1	17
Chromium (Cr) Δ	0.16	0.796	0.327	ND	0.272	0.001	0.005	-
Chromium (III) (Cr III)	NC	0.796	0.327	NC	0.272	-	-	460
Chromium (VI) (Cr VI)	NC	<0.2#	<0.2#	NC	<0.2#	-	0.2	0.2
Cobalt (Co)	ND	ND	ND	ND	ND	0.2	1	130
Copper (Cu)	<5	ND	6	ND	12	1	5	7700
Lead (Pb)	1	ND	3	ND	ND	0.2	1	23▲▲
Manganese (Mn)	34	5	26	ND	27	1	5	15000
Mercury (Hg)	ND	ND	ND	ND	ND	0.2	1	94
Nickel (Ni)	ND	ND	ND	ND	ND	1	5	930
Selenium (Se)	ND	ND	ND	ND	ND	1	5	460
Strontium (Sr)	6	<5	<5	ND	16	1	5	56000
Tin (Sn) ΔΔ	ND	5	ND	ND	<5	0.2	1	180000
Organic tin	NC	NC	NC	NC	NC	1	3	12
Zinc (Zn)	24	7	14450	17	25	1	5	46000

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Test conducted:

19 Toxic elements migration test▲

(A) Test result

With reference to EN 71-3: 2013 + A3 : 2018. Determine by ICP-MS, LC-ICP-MS and GC-MS.
Category (III): Scraped-off toy material

Element (Soluble)	Result (mg/kg)		LOD	LOQ	Limit
	(21)	(22)	(mg/kg)	(mg/kg)	(mg/kg)
Aluminium (Al)	523	ND	1	5	70000
Antimony (Sb)	ND	ND	1	5	560
Arsenic (As)	0.2	ND	0.02	0.1	47
Barium (Ba)	<5	ND	1	5	18750
Boron (B)	9	ND	1	5	15000
Cadmium (Cd)	0.5	ND	0.02	0.1	17
Chromium (Cr) Δ	1.432	0.014	0.001	0.005	-
Chromium (III) (Cr III)	1.432	NC	-	-	460
Chromium (VI) (Cr VI)	<0.04#	NC	-	0.04	0.053▲▲▲
Cobalt (Co)	ND	ND	0.2	1	130
Copper (Cu)	ND	ND	1	5	7700
Lead (Pb)	6	ND	0.2	1	23▲▲
Manganese (Mn)	20	ND	1	5	15000
Mercury (Hg)	ND	ND	0.2	1	94
Nickel (Ni)	ND	ND	1	5	930
Selenium (Se)	ND	ND	1	5	460
Strontium (Sr)	ND	ND	1	5	56000
Tin (Sn) ΔΔ	ND	ND	0.2	1	180000
Organic tin	NC	NC	1	3	12
Zinc (Zn)	271	421	1	5	46000

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Test conducted:

Remark: mg/kg = Milligram per kilogram = ppm
< = Less than
NC = Not conducted
ND = Not detected (Less than LOD)
LOD = Limit of Detection
LOQ = Limit of Quantitation
▲ = Tested items are not included in the TISI Accreditation

▲▲ = The new lead migration limit [(2.0mg/kg for Category (I), 0.5mg/kg for category (II) and 23 mg/kg for Category (III)] was quoted from directive (EU) 2017/738 amending 2009/48/EC effective from 28 October 2018.

▲▲▲ = The new chromium (VI) migration limit (0.053mg/kg) for Category (III) was quoted from directive (EU) Directive 2018/725 amending 2009/48/EC effective from 18 November 2019.
Δ= If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium (III) and Chromium (VI).

ΔΔ = If the migration of total Tin is below the maximum limit for Organic Tin, it can be inferred that the material complies with the requirements for Organic Tin.

- Organic tin test result was expressed as tributyl tin.

- As per EC decision 2013/492/EU of 7 October 2013 and in accordance with Court's Order of 15 May 2013 in case T-198/12R, the European Commission authorizes that the national provisions notified by the Federal Republic of Germany concerning limit values for Antimony(Sb)(60mg/kg), Arsenic (As)(25mg/kg), Mercury (Hg)(60mg/kg), Barium (Ba)(1000mg/kg) and Lead (Pb)(90mg/kg) in toys be maintained beyond 20 July 2013.

= Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

* = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

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TEST REPORT

Number: BKKH18013513

Test conducted:

Tested components:

		Report	Date
(1)	BLUE COATING ON WOOD (320C)	REFER BKKH18008773	Jul 12, 2018
(2)	SAWDUST	REFER BKKH18008767	Jul 10, 2018
(3)	PLYWOOD	REFER BKKH18008767	Jul 10, 2018
(4)	Orange Coating on Sawdust	REFER BKKH18008869	Jul 10, 2018
(5)	Yellow Coating on Sawdust	REFER BKKH18008869	Jul 10, 2018
(6)	White Coating on Sawdust	REFER BKKH18008869	Jul 10, 2018
(7)	LIGHT GREEN SAWDUST	REFER BKKH18008769	Jul 10, 2018
(8)	SOLID WOOD	REFER BKKH18008754	Jul 10, 2018
(9)	Blue Coating on Sawdust (No.4)	REFER BKKH18008867	Jul 10, 2018
(10)	Brown Coating on Sawdust	REFER BKKH18008867	Jul 10, 2018
(11)	Green Coating on Sawdust (No.2)	REFER BKKH18008868	Jul 10, 2018
(12)	YELLOW COATING ON WOOD	REFER BKKH18008771	Jul 12, 2018
(13)	WHITE COATING ON WOOD	REFER BKKH18008771	Jul 12, 2018
(14)	BROWN COATING ON WOOD (8771)	REFER BKKH18008771	Jul 12, 2018
(15)	LACQUER COATING ON WOOD	REFER BKKH18008771	Jul 12, 2018
(16)	BLACK COATING ON WOOD	REFER BKKH18008772	Jul 18, 2018
(17)	RED COATING ON WOOD	REFER BKKH18008770	Jul 12, 2018
(18)	GRAY COATING ON WOOD	REFER BKKH18009871S1	Aug 14, 2018
(19)	WHITE PLASTIC JOINT	REFER BKKH18008761	Jul 11, 2018
(20)	BLUE COATING ON WOOD	REFER BKKH18009125	Jul 18, 2018
(21)	BROWN COATING ON WOOD	REFER BKKH18012280	Sep 25, 2018
(22)	ORANGE RUBBER	REFER BKKH18016416	Dec 20, 2018

Note:

1. The toxic elements of EN71-3 was not conducted on the above components of samples. Applicant claimed the components were tested on our previous test report.
2. According to European standard on safety of toys EN71-3. As received, the test portion of the components are less than 10 mg, therefore such components were not tested for toxic.

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Test conducted:

(B) Categories of various toy materials

Category I: dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. the material can be ingested. contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or Sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone , leather and other materials).

Comment:

When tested as specified, the results of the tested components MET the 19 toxic elements limits of the European Council Directive 2009/48/EC and amendment 2012/7/EU on the Safety of Toys.

Note: LOD and LOQ value in this test report were effective since October, 2014

**********END**********/KS/NK

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