

Test Report

Number: GZHH00124147

Applicant: MB TRADING & CONSULTANCY

Date: May 04, 2013

Attn: MS. CHEN

Sample Description:

- Fifteen (15) pieces of submitted sample said to be :
- Item Name : **Micro Bead Pillow/Cushion /Toys**
- Labelled Age Group : Not specified
- Packaging Provided by Applicant : No
- Additional Material and Wet Paint : No
- Provided
- Country of Origin : China



Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

To be continued

Authorized by:
 For Intertek Testing Services Shenzhen Ltd.
 Guangzhou Branch, Toys & Hardlines Division

Ben N.L. Lin
 General Manager





Test Report

Number: GZHH00124147

Tests Conducted

	<u>(1)-(3)</u>	<u>Result (%)</u> <u>(5)</u>	<u>(7/8)</u>
Di-iso-nonyl phthalate (DINP)	<0.01	<0.01	<0.01
Di-n-octyl phthalate (DNOP)	<0.01	<0.01	<0.01
Di-iso-decyl phthalate (DIDP)	<0.01	<0.01	<0.01
Sum of three phthalates	<0.01	<0.01	<0.01
Limit		0.1%	

	<u>(9)</u>	<u>Result (%)</u> <u>(10/13)</u>	<u>(15/16/17)</u>
Di-iso-nonyl phthalate (DINP)	<0.01	<0.01	<0.01
Di-n-octyl phthalate (DNOP)	<0.01	<0.01	<0.01
Di-iso-decyl phthalate (DIDP)	<0.01	<0.01	<0.01
Sum of three phthalates	<0.01	<0.01	<0.01
Limit		0.1%	

	<u>(22/23/24)</u>	<u>Result (%)</u> <u>(28/31)</u>	<u>(32)</u>
Di-iso-nonyl phthalate (DINP)	<0.01	<0.01	<0.01
Di-n-octyl phthalate (DNOP)	<0.01	<0.01	<0.01
Di-iso-decyl phthalate (DIDP)	<0.01	<0.01	<0.01
Sum of three phthalates	<0.01	<0.01	<0.01
Limit		0.1%	

The above limit was quoted according to Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009(formerly known as Directive 2005/84/EC) for phthalate content in toys and child care articles.

Tested components :See component list in the last section of this report

Date sample received : Apr 09, 2013, Apr 23, 2013 & Apr 25, 2013

Testing period : Apr 09, 2013 to Apr 29, 2013





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Tests Conducted

6 Detection Of Amines Derived From Azocolourants and Azodyes:

By Gas Chromatographic - Mass Spectrometric (GC-MS) And High Performance Liquid Chromatographic (HPLC) Analysis.

Test Method : EN 14362-1 : 2012 for Textile Material

	<u>Forbidden</u>	<u>Cas No.</u>	<u>Result</u>		
			With chlorobenzene extraction		
			(1)	(3)	(9)-(10)
1.	4-Aminodiphenyl	92-67-1	ND	ND	ND
2.	Benzidine	92-87-5	ND	ND	ND
3.	4-Chloro-o-Toluidine	95-69-2	ND	ND	ND
4.	2-Naphthylamine	91-59-8	ND	ND	ND
5.	o-Aminoazotoluene	97-56-3	ND	ND	ND
6.	2-Amino-4-Nitrotoluene	99-55-8	ND	ND	ND
7.	p-Chloroaniline	106-47-8	ND	ND	ND
8.	2,4-Diaminoanisole	615-05-4	ND	ND	ND
9.	4,4'-Diaminodiphenylmethane	101-77-9	ND	ND	ND
10.	3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND
11.	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND
12.	3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND
13.	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	ND	ND	ND
14.	p-Cresidine	120-71-8	ND	ND	ND
15.	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	ND	ND	ND
16.	4,4'-Oxydianiline	101-80-4	ND	ND	ND
17.	4,4'-Thiodianiline	139-65-1	ND	ND	ND
18.	o-Toluidine	95-53-4	ND	ND	ND
19.	2,4-Toluylenediamine	95-80-7	ND	ND	ND
20.	2,4,5-Trimethylaniline	137-17-7	ND	ND	ND
21.	o-Anisidine	90-04-0	ND	ND	ND
22.	p-Aminoazobenzene	60-09-3	ND	ND	ND



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	<u>Forbidden</u>	<u>Cas No.</u>	<u>Result</u>		
			With chlorobenzene extraction (14)	(18)-(21)	(25)-(27)
1.	4-Aminodiphenyl	92-67-1	ND	ND	ND
2.	Benzidine	92-87-5	ND	ND	ND
3.	4-Chloro-o-Toluidine	95-69-2	ND	ND	ND
4.	2-Naphthylamine	91-59-8	ND	ND	ND
5.	o-Aminoazotoluene	97-56-3	ND	ND	ND
6.	2-Amino-4-Nitrotoluene	99-55-8	ND	ND	ND
7.	p-Chloroaniline	106-47-8	ND	ND	ND
8.	2,4-Diaminoanisole	615-05-4	ND	ND	ND
9.	4,4'-Diaminodiphenylmethane	101-77-9	ND	ND	ND
10.	3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND
11.	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND
12.	3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND
13.	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	ND	ND	ND
14.	p-Cresidine	120-71-8	ND	ND	ND
15.	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	ND	ND	ND
16.	4,4'-Oxydianiline	101-80-4	ND	ND	ND
17.	4,4'-Thiodianiline	139-65-1	ND	ND	ND
18.	o-Toluidine	95-53-4	ND	ND	ND
19.	2,4-Toluylenediamine	95-80-7	ND	ND	ND
20.	2,4,5-Trimethylaniline	137-17-7	ND	ND	ND
21.	o-Anisidine	90-04-0	ND	ND	ND
22.	p-Aminoazobenzene	60-09-3	ND	ND	ND

	<u>Forbidden</u>	<u>Cas No.</u>	<u>Result</u>		
			With chlorobenzene extraction (29)	(30)	(32)
1.	4-Aminodiphenyl	92-67-1	ND	ND	ND
2.	Benzidine	92-87-5	ND	ND	ND
3.	4-Chloro-o-Toluidine	95-69-2	ND	ND	ND
4.	2-Naphthylamine	91-59-8	ND	ND	ND
5.	o-Aminoazotoluene	97-56-3	ND	ND	ND
6.	2-Amino-4-Nitrotoluene	99-55-8	ND	ND	ND
7.	p-Chloroaniline	106-47-8	ND	ND	ND
8.	2,4-Diaminoanisole	615-05-4	ND	ND	ND
9.	4,4'-Diaminodiphenylmethane	101-77-9	ND	ND	ND
10.	3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND
11.	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND
12.	3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND
13.	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	ND	ND	ND
14.	p-Cresidine	120-71-8	ND	ND	ND
15.	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	ND	ND	ND
16.	4,4'-Oxydianiline	101-80-4	ND	ND	ND
17.	4,4'-Thiodianiline	139-65-1	ND	ND	ND
18.	o-Toluidine	95-53-4	ND	ND	ND
19.	2,4-Toluylenediamine	95-80-7	ND	ND	ND
20.	2,4,5-Trimethylaniline	137-17-7	ND	ND	ND
21.	o-Anisidine	90-04-0	ND	ND	ND
22.	p-Aminoazobenzene	60-09-3	ND	ND	ND





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Tests Conducted

	<u>Forbidden</u>	<u>Cas No.</u>	<u>Result</u>		
			Without chlorobenzene extraction		
			<u>(1)</u>	<u>(9)</u>	<u>(32)</u>
1.	4-Aminodiphenyl	92-67-1	ND	ND	ND
2.	Benzidine	92-87-5	ND	ND	ND
3.	4-Chloro-o-Toluidine	95-69-2	ND	ND	ND
4.	2-Naphthylamine	91-59-8	ND	ND	ND
5.	o-Aminoazotoluene	97-56-3	ND	ND	ND
6.	2-Amino-4-Nitrotoluene	99-55-8	ND	ND	ND
7.	p-Chloroaniline	106-47-8	ND	ND	ND
8.	2,4-Diaminoanisole	615-05-4	ND	ND	ND
9.	4,4'-Diaminodiphenylmethane	101-77-9	ND	ND	ND
10.	3,3'-Dichlorobenzidine	91-94-1	ND	ND	ND
11.	3,3'-Dimethoxybenzidine	119-90-4	ND	ND	ND
12.	3,3'-Dimethylbenzidine	119-93-7	ND	ND	ND
13.	3,3'-Dimethyl-4,4'diaminodiphenylmethane	838-88-0	ND	ND	ND
14.	p-Cresidine	120-71-8	ND	ND	ND
15.	4,4'-Methylene-Bis(2-Chloroaniline)	101-14-4	ND	ND	ND
16.	4,4'-Oxydianiline	101-80-4	ND	ND	ND
17.	4,4'-Thiodianiline	139-65-1	ND	ND	ND
18.	o-Toluidine	95-53-4	ND	ND	ND
19.	2,4-Toluylenediamine	95-80-7	ND	ND	ND
20.	2,4,5-Trimethylaniline	137-17-7	ND	ND	ND
21.	o-Anisidine	90-04-0	ND	ND	ND
22.	p-Aminoazobenzene	60-09-3	ND	ND	ND

ND = Not detected
 Detection limit = 5 ppm
 Requirement = 30 ppm (Max.)
 ppm = parts per million = mg/kg

Tested components :See component list in the last section of this report

Date sample received : Apr 09, 2013 & Apr 23, 2013
 Testing period : Apr 09, 2013 to Apr 13, 2013 & Apr 23, 2013 to Apr 24, 2013





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Tests Conducted

Component list:

- (1) White knit with printings (purple, white, yellow, black, green, red) (purple pillow).
- (2) Dark purple knit with purple thread (purple pillow).
- (3) Red woven with black thread stitching logo (all pillows).
- (4) White knit (blue pillow).
- (5) White knit (blue pillow, internal of purple pillow & brown pillow).
- (6) White foam (all pillows) (internal).
- (7) Black knit with black thread (black pillow).
- (8) Brown knit with brown thread (brown pillow).
- (9) White knit with printings (pink, black, red, green, black) (brown pillow).
- (10) Sky blue knit (blue pillow).
- (11) Beige sponge (blue pillow) (internal).
- (12) White yarn knit (blue pillow) (internal).
- (13) Blue knit with blue thread (blue pillow, caterpillar-shaped pillow).
- (14) Blue embroidery thread with blue knit and white felt (blue pillow).
- (15) Blue embroidery thread (blue pillow)(sample weight: 83mg).
- (16) White felt (blue pillow)(sample weight: 66mg).
- (17) White embroidery thread (blue pillow).
- (18) Purple knit (purple pillow).
- (19) Brown knit (brown pillow).
- (20) Blue knit (blue pillow, caterpillar-shaped pillow).
- (21) Black knit (black pillow).
- (22) Grass green knit with grass green thread (caterpillar-shaped pillow).
- (23) Orange knit with orange thread caterpillar-shaped pillow).
- (24) Yellow knit with yellow thread (caterpillar-shaped pillow).
- (25) Grass green knit (caterpillar-shaped pillow).
- (26) Orange knit (caterpillar-shaped pillow).
- (27) Yellow knit (caterpillar-shaped pillow).
- (28) Black embroidery thread (caterpillar-shaped pillow)(sample weight: 52mg).
- (29) Black/white embroidery thread with grass green knit (caterpillar-shaped pillow).
- (30) Red embroidery thread with grass green knit (caterpillar-shaped pillow).
- (31) Red embroidery thread (caterpillar-shaped pillow).
- (32) Dark blue knit (dark blue pillow).
- (33) White satin with black printing (sewn-in label).

End of report

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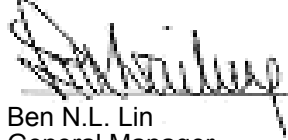
Conclusion:

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Submitted samples	EN71-1 : 2011 for mechanical and physical properties excluding labelling requirement of clause 7.1	Pass
	EN71 Part 2 : 2011 Flammability test	Pass
Tested components of submitted samples	Fpr EN 71-3:2013 for migration of certain elements	See Comment
	Cadmium content requirement in Commission Regulation (EU) No. 494/2011 of 20 May 2011 amending Annex XVII Items 23 of the REACH Regulation (EC) No. 1907/2006	Pass
	Phthalates content requirement in Annex XVII Items 51 & 52 of the REACH Regulation (EC) No. 1907/2006 & Amendment No. 552/2009 (formerly known as Directive 2005/84/EC)	Pass
	Azocolourants Content Requirement In Annex XVII Item 43 Of The REACH Regulation (EC) NO. 1907/2006 & Amendment No. 552/2009 and 126/2013 (Formerly Known As Directive 2002/61/EC)	Pass

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.

Remark: At the request of the applicant, samples were evaluated according to EN71-1 and EN71-2 both before and after washing.

Authorized by:
For Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch, Toys & Hardlines Division


Ben N.L. Lin
General Manager





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Tests Conducted

1 Mechanical and Physical Test

As per European Standard on Safety of toys EN71-1 : 2011.

Applicant's specified age group for testing : All ages.

<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
4*	General requirements	P
5*	Toys intended for children under 36 months	P
6	Packaging	NA
7	Warnings, markings and instructions for use	#

Remark: P = Pass NA = Not Applicable

* = The following subclauses of Clause 4 and 5 (note) of the standard were applicable : -

- 1) 4.1 Material cleanliness.
- 2) 4.7 Edges.
- 3) 4.8 Points and metallic, wires.
- 4) 5.1 General requirements.
- 5) 5.2 Soft-filled toys and soft-filled parts of a toy.

Note : The submitted samples were undergone the abuse tests for Clause 5.1 and 5.2 in according to 8.3 (Torque test), 8.4 (Tension test), 8.5 (Drop test), 8.7 (Impact test), 8.8 (Compression test) and specific tests for different types of toys whichever applicable.

As requested by applicant, samples were tested to EN71-1 both before and after washing. The washing method as below:
Machine wash with reference to EC type approval protocol No. 4 domestic washing and drying procedures for textiles toy intended for children under 36 months and EN ISO 6330 (2000) + A1 (2009).
No difference in test results was found before and after washing.

= No packaging was submitted for testing. Hence, clause 7.1 General requirement for Warnings, markings and instructions for use was not assessed.

Remark : Additional information according to the Toy Safety Directives 2009/48/EC requirement. These information also appears as a note within the EN71 but are not standard requirements:

1. Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and the CE-marking shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompany the toy. In addition, manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

After checking, it was found that:

- All the above markings were not found.





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Tests Conducted

2. Cleaning instruction

A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. The toy shall fulfill the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions. The manufacturer should, if applicable, provided instructions on how the toy has to be cleaned.

After checking, the cleaning instruction was found on the submitted samples

Date sample received : Apr 09, 2013
Testing period : Apr 09, 2013 to Apr 29, 2013

2 Flammability Test

As per European Standard on Safety of Toys EN71-2:2011

<u>Clause</u>	<u>Testing items</u>	<u>Assessment</u>
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	P

Remark: P = Pass NA = Not applicable

Note: As requested by applicant, samples were tested to EN71-2 both before and after washing. The washing method as below:
Machine wash with reference to EC type approval protocol No. 4 domestic washing and drying procedures for textiles toy intended for children under 36 months and EN ISO 6330 (2000) + A1 (2009). No difference in test results was found before and after washing.

Date sample received : Apr 09, 2013
Testing period : Apr 09, 2013 to Apr 29, 2013



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Tests Conducted

3 19 Toxic Element Migration Test

(A) Test Result

As per Fpr EN71-3:2013 and followed by Inductively Coupled Argon Mass Spectrometry, Liquid Chromatography-Inductively Coupled Argon Mass Spectrometry.

Category (III): Scraped-off toy material

Element	Result (mg/kg)				Limit (mg/kg)
	(1)	(2)-(3)	(4)	(7)	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	15	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	56000
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III)	<10	<10	<10	<10	460
Chromium (VI) (Cr VI)	< 0.2	< 0.2	< 0.2	< 0.2 [#]	0.2
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	160
Manganese (Mn)	< 10	< 10	19	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	46000





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Element	Result (mg/kg)				Limit (mg/kg)
	(8)-(9)	(10)	(13)	(15)	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	56000
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III)	<10	<10	<10	<10	460
Chromium (VI) (Cr VI)	< 0.2	< 0.2	< 0.2	< 0.2	0.2
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	160
Manganese (Mn)	< 10	22	16	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	46000

Element	Result (mg/kg)				Limit (mg/kg)
	(16)	(17)	(22)	(23)	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	48	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	56000
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III)	<10	<10	<10	<10	460
Chromium (VI) (Cr VI)	< 0.2	< 0.2	< 0.2	< 0.2	0.2
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	160
Manganese (Mn)	< 10	< 10	13	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	46000



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Element	Result (mg/kg)				Limit (mg/kg)
	(24)	(28)	(31)	(32)	
Aluminium (Al)	< 300	< 300	< 300	< 300	70000
Antimony (Sb)	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	< 10	< 10	< 10	56000
Boron (B)	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III)	<10	<10	<10	<10	460
Chromium (VI) (Cr VI)	< 0.2	< 0.2 [#]	< 0.2 [#]	< 0.2	0.2
Cobalt (Co)	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	160
Manganese (Mn)	22	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	180000
Organic tin	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	46000

Remark : mg/kg = milligram per kilogram

- Organic tin test result was expressed as tributyl tin.
- Unless specified, determination of Chromium (III), Chromium (VI) and Organic tin was based on elemental analysis.

The above reference limit was quoted according to Annex II Part III Items 13 of the European Council Directive 2009/48/EC & amendment 2012/7/EU for 19 toxic elements in toys.

= Confirmation of Chromium (VI) test was performed on the tested component.

Tested Components: See component list in the last section of this report

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Tests 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).

Date sample received : Apr 09, 2013, Apr 23, 2013 & Apr 25, 2013
Testing period : Apr 09, 2013 to May 02, 2013

4 Cadmium (Cd) Content

As per Cadmium content requirement in Commission Regulation (EU) No. 494/2011 of 20 May 2011 amending Annex XVII Item 23 of the REACH Regulation (EC) No. 1907/2006, acid digestion method was used and total Cadmium content was determined by Inductively Coupled Argon Plasma Spectrometry.

<u>Tested Component</u>	<u>Result</u>
(6)	ND
(11)	ND

Limit:

Category	Limit (%)
Wet paint	Not permitted
Surface coating	0.1
Plastic	0.01
Metal parts of jewelry & hair accessories	0.01

ND = Not detected (Detection limit = 0.0005%)

Tested components :See component list in the last section of this report

Date sample received : Apr 09, 2013, Apr 23, 2013 & Apr 25, 2013
Testing period : Apr 09, 2013 to May 02, 2013



Test Report

Number: GZHH00124147

Tests Conducted

5 Phthalate Content

With reference to EN14372, by Gas Chromatographic-Mass Spectrometric (GC-MS) analysis.

	<u>(1)-(3)</u>	<u>Result (%)</u> <u>(5)</u>	<u>(6/11)</u>
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01
Di-(2-ethyl hexyl) phthalate (DEHP)	<0.01	0.01	<0.01
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01
Sum of three phthalates	<0.01	0.01	<0.01
Limit		0.1%	

	<u>(7/8)</u>	<u>Result (%)</u> <u>(9)</u>	<u>(10/13)</u>
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01
Di-(2-ethyl hexyl) phthalate (DEHP)	<0.01	<0.01	<0.01
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01
Sum of three phthalates	<0.01	<0.01	<0.01
Limit		0.1%	

	<u>(12)</u>	<u>Result (%)</u> <u>(15/16/17)</u>	<u>(22/23/24)</u>
Dibutyl phthalate (DBP)	<0.01	<0.01	<0.01
Di-(2-ethyl hexyl) phthalate (DEHP)	<0.01	<0.01	<0.01
Benzyl butyl phthalate (BBP)	<0.01	<0.01	<0.01
Sum of three phthalates	<0.01	<0.01	<0.01
Limit		0.1%	

	<u>(28/31)</u>	<u>Result (%)</u>	<u>(32)</u>
Dibutyl phthalate (DBP)	0.01		<0.01
Di-(2-ethyl hexyl) phthalate (DEHP)	<0.01		<0.01
Benzyl butyl phthalate (BBP)	<0.01		<0.01
Sum of three phthalates	0.01		<0.01
Limit		0.1%	

