

## **Test Report**

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Applicant NEWRICH PRINTING CO., LTD

Address NO.139, FUMINROAD, GUANLAN TOWN, SHENZHEN, CHINA

Report on the submitted sample(s) said to be:

Sample Name BLACK PAWS

Item No. GB GAMES

Supplier SENYUE SULIAO

Country of Origin CHINA

Exported to Europe, U.S.A Sample Received Date Jan. 04, 2015

Sample Tested Date Jan. 04, 2015 to Jan. 07, 2015

**Test Conducted:** 

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

Tested by Carey

Approved by

Victor Wang
Lab Manager

Ternational (Shenzhen) Co., Ltd.

Reviewed by

Date

2015-01-07

No. T166704967

Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China



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## **Executive Summary:**

TES	T REQUEST	CONCLUSION	
1)	US Consumer Product Safety Improvement Act of 2008 (CPSIA) with amendment (H.R.2715)		
-	Lead in surface-coatings and similar materials of children's products	N/A	
-	Lead in substrate materials of children's products	PASS	
-	Phthalates in children's toys and child care articles	PASS	
2)	ASTM F963-11 Standard Consumer Safety Specification for Toy Safety		
7	Clause 4.3.5 Heavy elements – Total Lead content	PASS	
-	Clause 4.3.5 Heavy elements – Migration of certain elements	PASS	
3)	European Standard on Safety of Toys		

N/A = Not Applicable

EN 71-3:2013 Migration of certain elements

\*\*\*\*\*\*\* For Further Details, Please Refer To the Following Page(s) \*\*\*\*\*\*\*\*\*\*\*







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#### 1) US CPSIA WITH AMENDMENT (H.R.2715)

N/A = Not Applicable (as received, there was no paint or similar surface-coating material on the submitted sample(s), so it is not applicable to the requirement of this standard)

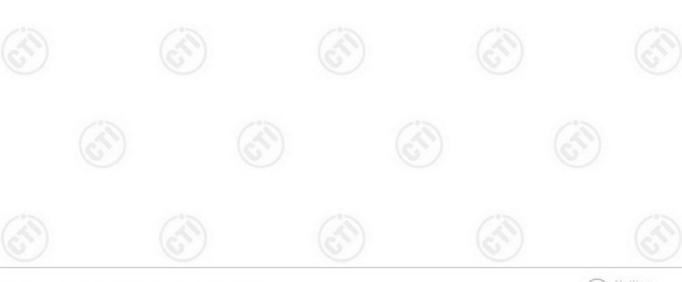
#### **▼** Lead in substrate materials of children's products

content was determined by ICP-OES and/or AAS.

As specified in Consumer Product Safety Improvement Act of 2008 (CPSIA), method(s) CPSC-CH -E1001-08.3/CPSC-CH-E1002-08.3 were used and total lead content was determined by ICP-OES and/or AAS.

Tested Item	Result (mg/kg)	MDL	<u>Limit</u>
	Black plastic	(mg/kg)	(mg/kg)
Total Lead (Pb)	ND	5	100

- mg/kg = parts per million = ppm
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit









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## **▼** Phthalates in children's toys and childcare articles

As specified in Consumer Product Safety Improvement Act of 2008 (CPSIA), method CPSC-CH-C1001 -09.3 was used and phthalates were determined by gas chromatograph with mass spectrometry (GC-MS).

Tested Item	Result (mg/kg)	MDL	<u>Limit</u>
	Black plastic	(mg/kg)	(mg/kg)
Di-2-ethylhexyl Phthalate (DEHP)	ND	30	1000
Dibutyl Phthalate (DBP)	ND	30	1000
Benzylbutyl Phthalate (BBP)	ND	30	1000

Tested Item	Result (mg/kg)	MDL	<u>Limit</u>
	Black plastic	(mg/kg)	(mg/kg)
Diisononyl Phthalate (DINP)	ND	50	1000
Di-n-octyl Phthalate (DNOP)	ND	30	1000
Diisodecyl Phthalate (DIDP)	ND	50	1000

- mg/kg = parts per million = ppm
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit









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### 2) ASTM F963-11

## **▼** Heavy elements test - Total Lead content

As specified in ASTM F963-11 standard consumer safety specification for toy safety clause 4.3.5, acid digestion methods specified in clause 8.3 were used and total Lead content was determined by ICP-OES and/or AAS.

Toy substrate materials:

Tested Item	Result (mg/kg)	<u>MDL</u>	<u>Limit</u>
	Black plastic	(mg/kg)	(mg/kg)
Total Lead (Pb)	ND	5	100

- mg/kg = parts per million = ppm
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit









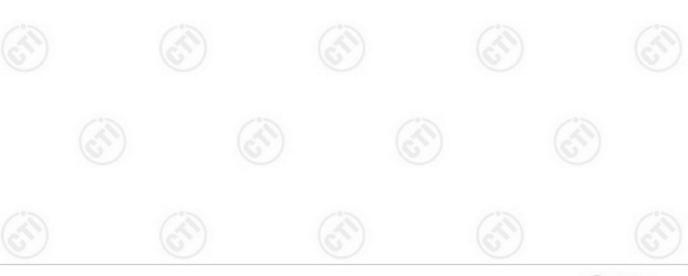
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#### **▼** Heavy elements test - Migration of certain elements

As specified in ASTM F963-11 standard consumer safety specification for toy safety clause 4.3.5, acid extraction methods specified in clause 8.3 were used and toxic elements content were determined by ICP-OES.

<u>Tested Item</u>	Result (mg/kg)	<u>MDL</u>	<u>Limit</u>
	Black plastic	(mg/kg)	(mg/kg)
Soluble Antimony (Sb)	ND	5	60
Soluble Arsenic (As)	ND	2.5	25
Soluble Barium (Ba)	ND	5	1000
Soluble Cadmium (Cd)	ND	5	75
Soluble Chromium (Cr)	ND	2.5	60
Soluble Lead (Pb)	ND	5	90
Soluble Mercury (Hg)	ND	2.5	60
Soluble Selenium (Se)	ND	5	500

- mg/kg = parts per million = ppm
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- Results shown of soluble elements are of adjusted analytical results by subtracting analytical correction factor.
- Filter paper was used instead of 0.45μm membrane filter in lab testing.









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### 3) EUROPEAN STANDARD ON SAFETY OF TOYS

#### **▼** Migration of certain elements

As specified in European standard on safety of toys EN 71-3:2013 - Migration of certain elements, acid extraction method was used and toxic elements content were determined by ICP-OES, ICP-MS, HPLC-ICP-MS and GC-MS.

Category Ⅲ: scraped-off toy material

Category in scraped on toy mate.					/
<u>Tested Item</u>	Result (mg/k	(g)		MDL	<u>Limit</u>
	Black plas	tic		(mg/kg)	(mg/kg)
Aluminium (Al)	ND		(3)	50	70000
Antimony (Sb)	ND		(6)	5	560
Arsenic (As)	ND			5	47
Barium (Ba)	ND			50	18750
Boron (B)	ND	Cin		50	15000
Cadmium (Cd)	ND	(6,2)		1	17
Chromium (Cr) #1	ND			0.2	
Chromium (III) #2					460
Chromium (VI)	ND		(3)	0.001	0.2
Cobalt (Co)	ND		(6,)	5	130
Copper (Cu)	ND			50	7700
Lead (Pb)	ND			5	160
Manganese (Mn)	ND	(3)		50	15000
Mercury (Hg)	ND	(6,)		5	94
Nickel (Ni)	ND			5	930
Selenium (Se)	ND			5	460
Strontium (Sr)	ND		(3)	50	56000
Tin (Sn) #3	ND		(0,)	2	180000
Organic tin (TBT) #4	ND			0.05	12
Zinc (Zn)	ND			50	46000

















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- mg/kg = parts per million = ppm
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- Filter paper was used instead of membrane filter in lab testing.
- <sup>#1</sup> Chromium (Cr) content can be used for screen test for hexavalent chromium and trivalent chromium analysis and to show compliance with the requirement of EN 71-3:2013.
- <sup>#2</sup> Chromium (Cr) = Hexavalent chromium (Cr (VI)) +Trivalent chromium (Cr (III)), where the chromium content exceeded the limits of hexavalent chromium and/or trivalent chromium, then hexavalent chromium was analyzed by HPLC-ICP-MS and trivalent chromium content was calculated using the formula.
- <sup>#3</sup> Tin (Sn) content can be used for screen test for organic tins analysis to show compliance with the requirement of EN 71-3:2013.
- <sup>#4</sup> The migration of organic tin is expressed as tributyltin (TBT). where the tin content exceeded the limit of organic tin, ten organic tins listed in table were determined by GC-MS and the client should be noted there are other organic tins may be present in toy materials.

Organic tins tested under EN 71-3:201.	3
Methyl tin (MeT)	1
Butyl tin (BuT)	(e
Dibutyl tin (DBT)	1/2
Tributyl tin (TBT)	
Tetrabutyl tin (TeBT)	
n-Octyl tin (MOT)	
Di-n-octyl tin (DOT)	
Di-n-propyl tin (DProT)	
Diphenyl tin (DPhT)	1
Triphenyl tin (TPhT)	(0





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## Photo of the sample



\*\*\* End of Report \*\*\*

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