



Test Report

Report No.: SZ2009004308

Applicant: Dongguan Super Fortune Metal Products Company Ltd
Applicant Add.: Lian Ping Da Sji Ban Village Da Ling Shan Town
Dongguan City China

Date: Jul.7,2009

Sample Information: The submitted sample(s) said to be 连接钉 2.7×18.4×0.2
Lot No.: 505-30064-18410 Buyer: 美泰/孩之宝/斯平玛斯特 (spinmaster)
Country of Origin: 东莞 Country of Destination: 美国/欧洲

Tested Sample Description: Gold color metal

Tests conducted: As requested by the applicant, for details refer to attached page(s)



David Zhou/ Lab Director

Signed for and on behalf of
Skyte Testing Lab., Shenzhen, China National Analytical Center, Guangzhou





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Conclusion:

Tested Sample	Standard	Conclusion
Submitted sample	Mattel QSOP No.0006-3600 Rev. Q Clause 2.6 for Heavy Elements Test	Pass
	EN71 part3:1994 and Amendment A1:2000 and AC:2002 for Toxic Elements Test	Pass
	Hasbro Safety and Reliability Specification SRS-044 (Rev. Q) for Heavy Metals Test	Pass
	U.S. ASTM F963-08 for Toxic Elements Test	See test conducted
	Canadian Hazardous Products Act, Schedule I Part I Item 9 with Amendment on 19 April 2005 for Toxic Elements Test	See test conducted
	U.S. CFR Title 16 Part 1303 for Total Lead Content	See test conducted

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A1.1: Total Heavy Elements Result (Mattel QSOP No.0006-3600)

As per Mattel quality and safety operating procedure No. 0006-3600 Rev. Q Clause 2.6, acid digestion method was used and heavy elements content were determined by inductively coupled plasma atomic emission spectrometer

Test Item	Test Result (ppm)	Limit (ppm)
Total Lead (Pb)	155	300

A1.2: Soluble Heavy Elements Result (Mattel QSOP No.0006-3600)

As per Mattel quality and safety operating procedure No. 0006-3600 Rev. Q Clause 2.6, acid extraction method was used and heavy elements content were determined by inductively coupled plasma atomic emission spectrometer

Test Item	Test Result (ppm)	Limit (ppm)
	Soluble Method 1	Soluble Method 1
Soluble Lead (Pb)	<5	90
Soluble Antimony (Sb)	<5	60
Soluble Arsenic (As)	<2.5	25
Soluble Barium (Ba)	<5	500
Soluble Cadmium (Cd)	<5	75
Soluble Chromium (Cr)	9	60
Soluble Mercury (Hg)	<5	60
Soluble Selenium (Se)	<5	300



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A2: Test Result (EN71-3)

As per European standard on safety of toys EN71 part3:1994 and Amendment A1:2000 and AC:2002, acid extraction method was used and toxic elements content were determined by inductively coupled plasma atomic emission spectrometer

Test Item	Test Result (mg/kg)	Limit (mg/kg)
Soluble Lead (Pb)	<5	90
Soluble Antimony (Sb)	<5	60
Soluble Arsenic (As)	<2.5	25
Soluble Barium (Ba)	<5	1000
Soluble Cadmium (Cd)	<5	75
Soluble Chromium (Cr)	9	60
Soluble Mercury (Hg)	<5	60
Soluble Selenium (Se)	<5	500

A3: Test Result (SRS-044)

As per Hasbro INC. Corporate Quality Assurance Safety and Reliability Specification SRS-044 (Revision Q), acid digestion and extraction methods were used, and heavy metals content were determined by inductively coupled plasma atomic emission spectrometer

Test Item	Test Result (ppm)	Limit (ppm)
Total Lead (Pb)	155	75
Total Cadmium (Cd)	<5	30
Soluble Lead (Pb)	<5	60
Soluble Antimony (Sb)	<5	25
Soluble Arsenic (As)	<2.5	10
Soluble Barium (Ba)	<5	700
Soluble Cadmium (Cd)	<5	30
Soluble Chromium (Cr)	9	40
Soluble Mercury (Hg)	<5	30
Soluble Selenium (Se)	<5	200



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A4: Test Result (ASTM F963-08)

As per American standard consumer safety specification on toy safety ASTM F963-08, acid digestion and extraction methods were used and toxic elements content were determined by inductively coupled plasma atomic emission spectrometer

Test Item	Test Result (ppm) ^{#1}	Limit (ppm)
Total Lead (Pb)	155	600
Soluble Lead (Pb)	<5	90
Soluble Antimony (Sb)	<5	60
Soluble Arsenic (As)	<2.5	25
Soluble Barium (Ba)	<5	1000
Soluble Cadmium (Cd)	<5	75
Soluble Chromium (Cr)	9	60
Soluble Mercury (Hg)	<5	60
Soluble Selenium (Se)	<5	500

#1: The testing scope of the standard was not applicable to the submitted sample(s). However, the result did not exceed the limit of the standard

A5: Test Result (CHPA)

As per Canadian Hazardous Products Act, schedule I part I item 9 with amendment on 19 April 2005, acid digestion and extraction methods were used and toxic elements content were determined by inductively coupled plasma atomic emission spectrometer

Test Item	Test Result (mg/kg) ^{#2}	Limit (mg/kg)
Total Lead (Pb)	155	600
Total Mercury (Hg)	N.D.(<10)	N.D.
Soluble Arsenic (As)	<10	1000
Soluble Barium (Ba)	<10	1000
Soluble Cadmium (Cd)	<10	1000
Soluble Antimony (Sb)	<10	1000
Soluble Selenium (Se)	<10	1000

#2: The testing scope of the standard was not applicable to the submitted sample(s). However, the result did not exceed the limit of the standard

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A6: Test Result (CPSC)

As per U.S.Code of Federal Regulations title 16 part 1303, acid digestion method was used and total lead content was determined by inductively coupled plasma atomic emission spectrometer

Test Item	Test Result (%) ^{#3}	Limit (%)
Total Lead (Pb)	0.016	0.06

#3: The testing scope of the standard was not applicable to the submitted sample(s). However, the result did not exceed the limit of the standard

Remark:

- (1) <=less than
- (2) N.D.=Not detected
- (3) ppm=parts per million
- (4) mg/kg=milligram per kilogram
- (5) Soluble Method 1=EN71 Soluble

B: Sample Photo



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Sample Receiving Date: Jul.2,2009
Testing Period: Jul.2,2009 to Jul.7,2009

(End of report)

Declaration:

- (1)The report shall not be reproduced partly without the written approval of the laboratory, except reproduced in full
- (2)All the results shown in the report apply to the tested sample,any erasion on the report is invalid
- (3)All tested sample suitable for storage will be kept for one month,if there is any doubt about the test result, please inform within this period
- (4)The hard copy of this(these) report(s) shall prevail in case of discrepancy between the hard copy and the soft copy

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