

TEST REPORT

APPLICANT : SCENTCO LIMITED

ADDRESS : RM 401, 4/F, SUNG KEE IND. BLDH., 18 KWAI TING ROAD, KWAI CHUNG, N.T., HONG KONG

SAMPLE DESCRIPTION : GRAPHITE SMENCILS

VENDOR : SCENTCO LIMITED

COUNTRY OF ORIGIN : China

COUNTRY OF DESTINATION : USA, EU, ASIA

AGE REQUESTED ON APPLICATION FORM : 3+

SAMPLE RECEIVED DATE : 16-May-2014

TURN AROUND TIME : 16-May-2014 to 27-May-2014, 8 Working Days

TEST REQUESTED	RESULT
- EN71 Part 3:2013 – Migration of Certain Elements	Pass

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***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
Eurofins Product Testing Service (Shanghai) Co., Ltd



Chris Zhang
Lab Manager

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SAMPLE PHOTO



EFSH14051145-CG-01

TO BE CONTINUED

COMPONENT LIST

Component No.	Component
1	Transparent film without multi-color printing
2	Transparent plastic
3	Gray paper card (pencil body)
4	Azure soft plastic
5	Pink soft plastic
6	Purple soft plastic
7	Yellow soft plastic
8	Green soft plastic
9	Red soft plastic
10	Light green soft plastic
11	Black lead
12	Cotton candy sticker
13	Jelly bean sticker
14	Bubble Gum sticker
15	Rainbow sherbet sticker
16	Cupcake sticker
17	lemon lime fizz sticker
18	Watermelon sticker
19	Cola Sticker
20	strawberry cupcake
21	Gum-E Bear sticker
22	Sour apple

TO BE CONTINUED

TEST RESULT

EN71 Part 3:2013 – Migration of Certain Elements

(Category III: scrapped-off toy material)

Test Method: Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013, analysis was performed by HPLC-ICP-MS

Elements – With reference to EN 71 Part 3:2013, analysis was performed by ICP-MS.

Extractable Organic Tin –With reference to EN 71 Part 3:2013, analysis was performed by GC-MS.

Requirements: European Directive 2009/48/EC

Test Item(s):	Limit	Unit	MDL	Result
				3
Extractable Lead (Pb)	160	mg/kg	10	ND
Extractable Antimony (Sb)	560	mg/kg	10	ND
Extractable Arsenic (As)	47	mg/kg	5	ND
Extractable Barium (Ba)	18750	mg/kg	50	ND
Extractable Cadmium (Cd)	17	mg/kg	1	ND
Extractable Mercury (Hg)	94	mg/kg	10	ND
Extractable Selenium (Se)	460	mg/kg	10	ND
Extractable Boron (B)	15000	mg/kg	50	ND
Extractable Cobalt (Co)	130	mg/kg	10	ND
Extractable Manganese (Mn)	15000	mg/kg	50	ND
Extractable Strontium (Sr)	56000	mg/kg	50	ND
Extractable Zinc (Zn)	46000	mg/kg	50	ND
Extractable Copper (Cu)	7700	mg/kg	50	ND
Extractable Aluminum (Al)	70000	mg/kg	50	339
Extractable Nickel (Ni)	930	mg/kg	10	ND
Extractable Tin (Sn)	180000	mg/kg	50	ND
Extractable Organic Tin [#]	12	mg/kg	0.2	ND
Extractable Chromium (III) (Cr III)	460	mg/kg	10	ND
Extractable Chromium (VI) (Cr VI)	0.2	mg/kg	0.1	ND

Remarks:

- (1) 1mg/kg=1ppm=0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (<MDL)

Note:

[#] - The migration of organic tin is expressed as tributyltin.

TO BE CONTINUED

TEST RESULT

EN71 Part 3:2013 – Migration of Certain Elements

(Category III: scrapped-off toy material)

Test Method: Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013, analysis was performed by HPLC-ICP-MS

Elements – With reference to EN 71 Part 3:2013, analysis was performed by ICP-MS.

Extractable Organic Tin –With reference to EN 71 Part 3:2013, analysis was performed by GC-MS.

Requirements: European Directive 2009/48/EC

Test Item(s):	Limit	Unit	MDL	Result			
				1	2	4	5
Extractable Lead (Pb)	160	mg/kg	10	ND	ND	ND	ND
Extractable Antimony (Sb)	560	mg/kg	10	ND	ND	ND	ND
Extractable Arsenic (As)	47	mg/kg	5	ND	ND	ND	ND
Extractable Barium (Ba)	18750	mg/kg	50	ND	ND	ND	ND
Extractable Cadmium (Cd)	17	mg/kg	1	ND	ND	ND	ND
Extractable Mercury (Hg)	94	mg/kg	10	ND	ND	ND	ND
Extractable Selenium (Se)	460	mg/kg	10	ND	ND	ND	ND
Extractable Boron (B)	15000	mg/kg	50	ND	ND	ND	ND
Extractable Cobalt (Co)	130	mg/kg	10	ND	ND	ND	ND
Extractable Manganese (Mn)	15000	mg/kg	50	ND	ND	ND	ND
Extractable Strontium (Sr)	56000	mg/kg	50	ND	ND	ND	ND
Extractable Zinc (Zn)	46000	mg/kg	50	ND	ND	ND	ND
Extractable Copper (Cu)	7700	mg/kg	50	ND	ND	ND	ND
Extractable Aluminum (Al)	70000	mg/kg	50	ND	ND	ND	ND
Extractable Nickel (Ni)	930	mg/kg	10	ND	ND	ND	ND
Extractable Tin (Sn)	180000	mg/kg	50	ND	ND	ND	ND
Extractable Organic Tin ^{#1}	12	mg/kg	0.2	ND	ND	ND	ND
Extractable Chromium ^{#2}	-	mg/kg	0.02	ND	ND	ND	ND
Extractable Chromium (III) (Cr III)	460	mg/kg	10	-	-	-	-
Extractable Chromium (VI) (Cr VI)	0.2	mg/kg	0.1	-	-	-	-

Remarks:

- (1) 1mg/kg=1ppm=0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (<MDL)

Note:

^{#1} - The migration of organic tin is expressed as tributyltin.

^{#2} - 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).

TO BE CONTINUED

TEST RESULT

EN71 Part 3:2013 – Migration of Certain Elements

(Category III: scrapped-off toy material)

Test Method: Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013, analysis was performed by HPLC-ICP-MS

Elements – With reference to EN 71 Part 3:2013, analysis was performed by ICP-MS.

Extractable Organic Tin –With reference to EN 71 Part 3:2013, analysis was performed by GC-MS.

Requirements: European Directive 2009/48/EC

Test Item(s):	Limit	Unit	MDL	Result			
				6	7	8	9
Extractable Lead (Pb)	160	mg/kg	10	ND	ND	ND	ND
Extractable Antimony (Sb)	560	mg/kg	10	ND	ND	ND	ND
Extractable Arsenic (As)	47	mg/kg	5	ND	ND	ND	ND
Extractable Barium (Ba)	18750	mg/kg	50	ND	ND	ND	ND
Extractable Cadmium (Cd)	17	mg/kg	1	ND	ND	ND	ND
Extractable Mercury (Hg)	94	mg/kg	10	ND	ND	ND	ND
Extractable Selenium (Se)	460	mg/kg	10	ND	ND	ND	ND
Extractable Boron (B)	15000	mg/kg	50	ND	ND	ND	ND
Extractable Cobalt (Co)	130	mg/kg	10	ND	ND	ND	ND
Extractable Manganese (Mn)	15000	mg/kg	50	ND	ND	ND	ND
Extractable Strontium (Sr)	56000	mg/kg	50	ND	ND	ND	ND
Extractable Zinc (Zn)	46000	mg/kg	50	ND	ND	ND	ND
Extractable Copper (Cu)	7700	mg/kg	50	ND	ND	ND	ND
Extractable Aluminum (Al)	70000	mg/kg	50	ND	ND	ND	ND
Extractable Nickel (Ni)	930	mg/kg	10	ND	ND	ND	ND
Extractable Tin (Sn)	180000	mg/kg	50	ND	ND	ND	ND
Extractable Organic Tin ^{#1}	12	mg/kg	0.2	ND	ND	ND	ND
Extractable Chromium ^{#2}	-	mg/kg	0.02	ND	ND	ND	ND
Extractable Chromium (III) (Cr III)	460	mg/kg	10	-	-	-	-
Extractable Chromium (VI) (Cr VI)	0.2	mg/kg	0.1	-	-	-	-

Remarks:

- (1) 1mg/kg=1ppm=0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (<MDL)

Note:

^{#1} - The migration of organic tin is expressed as tributyltin.

^{#2} - 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).

TO BE CONTINUED

TEST RESULT

EN71 Part 3:2013 – Migration of Certain Elements

(Category III: scrapped-off toy material)

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Elements – With reference to EN 71 Part 3:2013, analysis was performed by ICP-MS.

Extractable Organic Tin –With reference to EN 71 Part 3:2013, analysis was performed by GC-MS.

Requirements: European Directive 2009/48/EC

Test Item(s):	Limit	Unit	MDL	Result			
				10	12	13	14
Extractable Lead (Pb)	160	mg/kg	10	ND	ND	ND	ND
Extractable Antimony (Sb)	560	mg/kg	10	ND	ND	ND	ND
Extractable Arsenic (As)	47	mg/kg	5	ND	ND	ND	ND
Extractable Barium (Ba)	18750	mg/kg	50	ND	ND	ND	ND
Extractable Cadmium (Cd)	17	mg/kg	1	ND	ND	ND	ND
Extractable Mercury (Hg)	94	mg/kg	10	ND	ND	ND	ND
Extractable Selenium (Se)	460	mg/kg	10	ND	ND	ND	ND
Extractable Boron (B)	15000	mg/kg	50	ND	ND	ND	ND
Extractable Cobalt (Co)	130	mg/kg	10	ND	ND	ND	ND
Extractable Manganese (Mn)	15000	mg/kg	50	ND	ND	ND	ND
Extractable Strontium (Sr)	56000	mg/kg	50	ND	ND	ND	ND
Extractable Zinc (Zn)	46000	mg/kg	50	ND	ND	ND	ND
Extractable Copper (Cu)	7700	mg/kg	50	ND	ND	ND	ND
Extractable Aluminum (Al)	70000	mg/kg	50	ND	ND	ND	ND
Extractable Nickel (Ni)	930	mg/kg	10	ND	ND	ND	ND
Extractable Tin (Sn)	180000	mg/kg	50	ND	ND	ND	ND
Extractable Organic Tin ^{#1}	12	mg/kg	0.2	ND	ND	ND	ND
Extractable Chromium ^{#2}	-	mg/kg	0.02	ND	ND	ND	ND
Extractable Chromium (III) (Cr III)	460	mg/kg	10	-	-	-	-
Extractable Chromium (VI) (Cr VI)	0.2	mg/kg	0.1	-	-	-	-

Remarks:

- (1) 1mg/kg=1ppm=0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (<MDL)

Note:

^{#1} - The migration of organic tin is expressed as tributyltin.

^{#2} - 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).

TO BE CONTINUED

TEST RESULT

EN71 Part 3:2013 – Migration of Certain Elements

(Category III: scrapped-off toy material)

Test Method: Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013, analysis was performed by HPLC-ICP-MS

Elements – With reference to EN 71 Part 3:2013, analysis was performed by ICP-MS.

Extractable Organic Tin –With reference to EN 71 Part 3:2013, analysis was performed by GC-MS.

Requirements: European Directive 2009/48/EC

Test Item(s):	Limit	Unit	MDL	Result			
				15	16	17	18
Extractable Lead (Pb)	160	mg/kg	10	ND	ND	ND	ND
Extractable Antimony (Sb)	560	mg/kg	10	ND	ND	ND	ND
Extractable Arsenic (As)	47	mg/kg	5	ND	ND	ND	ND
Extractable Barium (Ba)	18750	mg/kg	50	ND	ND	ND	124
Extractable Cadmium (Cd)	17	mg/kg	1	ND	ND	ND	ND
Extractable Mercury (Hg)	94	mg/kg	10	ND	ND	ND	ND
Extractable Selenium (Se)	460	mg/kg	10	ND	ND	ND	ND
Extractable Boron (B)	15000	mg/kg	50	ND	ND	ND	ND
Extractable Cobalt (Co)	130	mg/kg	10	ND	ND	ND	ND
Extractable Manganese (Mn)	15000	mg/kg	50	ND	ND	ND	ND
Extractable Strontium (Sr)	56000	mg/kg	50	ND	ND	ND	ND
Extractable Zinc (Zn)	46000	mg/kg	50	ND	ND	ND	ND
Extractable Copper (Cu)	7700	mg/kg	50	ND	ND	ND	ND
Extractable Aluminum (Al)	70000	mg/kg	50	ND	ND	ND	ND
Extractable Nickel (Ni)	930	mg/kg	10	ND	ND	ND	ND
Extractable Tin (Sn)	180000	mg/kg	50	ND	ND	ND	ND
Extractable Organic Tin ^{#1}	12	mg/kg	0.2	ND	ND	ND	ND
Extractable Chromium ^{#2}	-	mg/kg	0.02	ND	ND	ND	ND
Extractable Chromium (III) (Cr III)	460	mg/kg	10	-	-	-	-
Extractable Chromium (VI) (Cr VI)	0.2	mg/kg	0.1	-	-	-	-

Remarks:

- (1) 1mg/kg=1ppm=0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (<MDL)

Note:

^{#1} - The migration of organic tin is expressed as tributyltin.

^{#2} - 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).

TO BE CONTINUED

TEST RESULT

EN71 Part 3:2013 – Migration of Certain Elements

(Category III: scrapped-off toy material)

Test Method: Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013, analysis was performed by HPLC-ICP-MS

Elements – With reference to EN 71 Part 3:2013, analysis was performed by ICP-MS.

Extractable Organic Tin –With reference to EN 71 Part 3:2013, analysis was performed by GC-MS.

Requirements: European Directive 2009/48/EC

Test Item(s):	Limit	Unit	MDL	Result			
				19	20	21	22
Extractable Lead (Pb)	160	mg/kg	10	ND	ND	ND	ND
Extractable Antimony (Sb)	560	mg/kg	10	ND	ND	ND	ND
Extractable Arsenic (As)	47	mg/kg	5	ND	ND	ND	ND
Extractable Barium (Ba)	18750	mg/kg	50	ND	ND	ND	ND
Extractable Cadmium (Cd)	17	mg/kg	1	ND	ND	ND	ND
Extractable Mercury (Hg)	94	mg/kg	10	ND	ND	ND	ND
Extractable Selenium (Se)	460	mg/kg	10	ND	ND	ND	ND
Extractable Boron (B)	15000	mg/kg	50	ND	ND	ND	ND
Extractable Cobalt (Co)	130	mg/kg	10	ND	ND	ND	ND
Extractable Manganese (Mn)	15000	mg/kg	50	ND	ND	ND	ND
Extractable Strontium (Sr)	56000	mg/kg	50	ND	ND	ND	ND
Extractable Zinc (Zn)	46000	mg/kg	50	ND	ND	ND	ND
Extractable Copper (Cu)	7700	mg/kg	50	ND	ND	ND	ND
Extractable Aluminum (Al)	70000	mg/kg	50	ND	ND	ND	ND
Extractable Nickel (Ni)	930	mg/kg	10	ND	ND	ND	ND
Extractable Tin (Sn)	180000	mg/kg	50	ND	ND	ND	ND
Extractable Organic Tin ^{#1}	12	mg/kg	0.2	ND	ND	ND	ND
Extractable Chromium ^{#2}	-	mg/kg	0.02	ND	ND	ND	ND
Extractable Chromium (III) (Cr III)	460	mg/kg	10	-	-	-	-
Extractable Chromium (VI) (Cr VI)	0.2	mg/kg	0.1	-	-	-	-

Remarks:

- (1) 1mg/kg=1ppm=0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (<MDL)

Note:

^{#1} - The migration of organic tin is expressed as tributyltin.

^{#2} - 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).

TO BE CONTINUED

TEST RESULT

EN71 Part 3:2013 – Migration of Certain Elements

(Category I: dry, brittle, powder-like or pliable toy material)

Test Method: Extractable Chromium(III) and Chromium(VI) – With reference to EN 71 Part 3:2013, analysis was performed by HPLC-ICP-MS

Elements – With reference to EN 71 Part 3:2013, analysis was performed by ICP-MS.

Extractable Organic Tin –With reference to EN 71 Part 3:2013, analysis was performed by GC-MS.

Requirements: European Directive 2009/48/EC

Test Item(s):	Limit	Unit	MDL	Result
				11
Extractable Lead (Pb)	13.5	mg/kg	1	ND
Extractable Antimony (Sb)	45	mg/kg	5	ND
Extractable Arsenic (As)	3.8	mg/kg	0.2	ND
Extractable Barium (Ba)	1500	mg/kg	50	ND
Extractable Cadmium (Cd)	1.3	mg/kg	0.1	ND
Extractable Mercury (Hg)	7.5	mg/kg	0.5	ND
Extractable Selenium (Se)	37.5	mg/kg	2	ND
Extractable Boron (B)	1200	mg/kg	50	ND
Extractable Cobalt (Co)	10.5	mg/kg	1	ND
Extractable Manganese (Mn)	1200	mg/kg	50	ND
Extractable Strontium (Sr)	4500	mg/kg	50	ND
Extractable Zinc (Zn)	3750	mg/kg	50	ND
Extractable Copper (Cu)	622.5	mg/kg	10	ND
Extractable Aluminum (Al)	5625	mg/kg	50	207
Extractable Nickel (Ni)	75	mg/kg	5	ND
Extractable Tin (Sn)	15000	mg/kg	50	ND
Extractable Organic Tin ^{#1}	0.9	mg/kg	0.2	ND
Extractable Chromium ^{#2}	-	mg/kg	0.02	ND
Extractable Chromium (III) (Cr III)	37.5	mg/kg	2	-
Extractable Chromium (VI) (Cr VI)	0.02	mg/kg	0.02	-

Remarks:

- (1) 1mg/kg=1ppm=0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (<MDL)

Note:

^{#1} - The migration of organic tin is expressed as tributyltin.

^{#2} - 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).

*** END OF THE REPORT ***