

广东出入境检验检疫局检验检疫技术中心-玩具婴童用品实验室(中国广东进出口玩具检验中心)

Guangdong Inspection and Quarantine Technology Center - Toys and Juvenile Products Testing Lab
(Guangdong Import & Export Toys Inspection Center)

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No. : GT201700573E

Date: March 31, 2017

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TEST REPORT



SAMPLE SUBMITTED:

Twelve kinds of samples (**see the last page for photo**) said to be COLOR WRITING PART

SAMPLE RECEIVED ON: Mar. 27, 2017

TEST PERIOD: Mar. 27, 2017 – Mar. 30, 2017

RESULTS: Please refer to result page(s).

SUMMARY:

Test Conducted

European Standard on Safety of Toys:

- EN71-3:2013+A1:2014 Migration of Certain Elements

Assessment

Pass

(To be continued)



Authorised by

Py Pa

CHEN Yang
Director of Toys and Juvenile
Products Testing Lab

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TEST REPORT

RESULTS:

EN71 Part 3:2013+A1:2014, Safety of toys Part 3: Migration of Certain Elements

Assessment: Tested specimen pass

General elements, Chromium (III) and Chromium (VI)

Method: As specified in the standard, elements determined by Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) and liquid chromatograph coupled with Inductively Coupled Plasma-Mass Spectrometry (LC-ICP-MS).

Result in mg/kg (for dry, brittle, powder like or pliable toy materials)

Element	Limit	Specimen No.					
		1	2	3	4	5	6
Aluminium(Al)	5625	302	208	218	251	190	242
Antimony(Sb)	45	<5	<5	<5	<5	<5	<5
Arsenic(As)	3.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Barium(Ba)	1500	<5	401	12	39	<5	256
Boron(B)	1200	<10	<10	<10	<10	<10	<10
Cadmium (Cd)	1.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium (III) (CrIII)	37.5	<1	<1	<1	<1	<1	<1
Chromium (VI) (CrVI)	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt(Co)	10.5	<1	<1	<1	<1	<1	<1
Copper(Cu)	622.5	<10	<10	<10	<10	<10	<10
Lead(Pb)	13.5	<1	<1	<1	2	<1	<1
Manganese(Mn)	1200	<10	<10	<10	<10	<10	29
Mercury(Hg)	7.5	<1	<1	<1	<1	<1	<1
Nickel(Ni)	75	<5	<5	<5	<5	<5	<5
Selenium (Se)	37.5	<1	<1	<1	<1	<1	<1
Strontium(Sr)	4500	<50	<50	<50	<50	<50	<50
Tin(Sn)	15000	<1	<1	<1	<1	<1	<1
Zinc(Zn)	3750	<50	542	<50	<50	<50	<50

mg/kg = milligram per kilogram

(To be continued)

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TEST REPORT

RESULTS:

Result in mg/kg (for dry, brittle, powder like or pliable toy materials)

Element	Limit	Specimen No.					
		7	8	9	10	11	12
Aluminium(Al)	5625	231	220	240	242	205	200
Antimony(Sb)	45	<5	<5	<5	<5	<5	<5
Arsenic(As)	3.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Barium(Ba)	1500	<5	65	375	13	12	<5
Boron(B)	1200	<10	<10	<10	<10	<10	<10
Cadmium (Cd)	1.3	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium (III) (CrIII)	37.5	<1	<1	<1	<1	<1	<1
Chromium (VI) (CrVI)	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Cobalt(Co)	10.5	<1	<1	<1	<1	<1	<1
Copper(Cu)	622.5	<10	<10	<10	<10	<10	<10
Lead(Pb)	13.5	<1	<1	2	2	<1	<1
Manganese(Mn)	1200	<10	<10	<10	<10	<10	<10
Mercury(Hg)	7.5	<1	<1	<1	<1	<1	<1
Nickel(Ni)	75	<5	<5	<5	<5	<5	<5
Selenium (Se)	37.5	<1	<1	<1	<1	<1	<1
Strontium(Sr)	4500	<50	<50	<50	<50	<50	<50
Tin(Sn)	15000	<1	<1	<1	<1	<1	<1
Zinc(Zn)	3750	<50	<50	157	<50	<50	<50

mg/kg = milligram per kilogram

(To be continued)

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TEST REPORT

RESULTS:

Organic tin

Method: As per EN 71-3:2013 +A1:2014 Annex G, analyzed by Gas Chromatographic-Mass Spectrometer (GC-MS)

Result /mg/kg (based on weight of tributyltin)

Abbreviation	Test Item	Limit			Specimen No.											
		A	B	C	1	2	3	4	5	6	7	8	9	10	11	12
MeT	Methyl tin	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DBT	Dibutyl tin	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TBT	Tributyl tin	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TeBT	Tetrabutyl tin	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MOT	Monooctyltin	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DOT	Diocetyl tin	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DProT	Dipropyltin	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DPhT	Diphenyl tin	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TPhT	Triphenyl tin	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BuT	Butyl tin	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DMT	Dimethyl tin	--	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
--	Sum of above	0.9	0.2	12	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

A = Category I: Dry, brittle, powder like or pliable

B = Category II: Liquid or sticky

C = Category III: Scraped-off

ND = Not Detected (less than 0.1mg/kg for Category I and Category II, less than 2mg/kg for Category III)

(To be continued)

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TEST REPORT

RESULTS:

Specimen description:

1. Pink writing part (Category I)
2. Yellow writing part (Category I)
3. Orange writing part (Category I)
4. Red writing part (Category I)
5. Brown writing part (Category I)
6. Violet writing part (Category I)
7. Purplish blue writing part (Category I)
8. Green writing part (Category I)
9. Apple green writing part (Category I)
10. Sky blue writing part (Category I)
11. Black writing part (Category I)
12. Brown writing part (Category I)

(To be continued)

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TEST REPORT

Photo of the submitted sample(s)



(End of report)