

Test Report

Report No. SCL01G041973e

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**Applicant
Address**

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

Sample Name	Shape Sorting Cube
Item No.	575/10575/20575
PO No.	NA
PDC	NA
Shipment Quantity	NA
Factory Name	LQ
Exported to	NA
Country of origin	China
Carton No.	NA
Customer	
Original/Purpose	NPD
Quantity of sample	5 pcs
Sample Received Date	Oct. 16, 2014
Sample Tested Date	Oct. 16, 2014 to Oct. 22, 2014

Test Conducted:

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

Tested by Zhang

Reviewed by Noelle

Approved by Victor Wang

Date 2014-11-28

Victor Wang
Lab Manager

No. T149815381



Centre Testing International (Shenzhen) Co., Ltd.

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



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Executive Summary:

TEST REQUEST

- 1) US Consumer Product Safety Improvement Act of 2008 (CPSIA) with amendment (H.R.2715)
 - Phthalates in children's toys and child care articles
- 2) European Regulation(EC) No. 1907/2006, REACH & amendment No.552/2009 Annex XVII
 - Phthalates in toys and childcare articles
- 3) SOR/2011-17 Toys Regulations of Canada Consumer Product Safety Act (CCPSA)
 - Heavy Metals Contents in Surface Coatings/Paint

CONCLUSION

PASS

PASS

PASS

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

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

▼ Phthalates in children's toys and child care 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 (mg/kg)	Limit (mg/kg)
	(1)	(2)	(3)	(4)		
Di-2-ethylhexyl Phthalate (DEHP)	ND	ND	ND	ND	30	1000
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	30	1000
Benzylbutyl Phthalate (BBP)	ND	ND	ND	ND	30	1000

Tested Item	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
	(5)	(6)	(7)		
Di-2-ethylhexyl Phthalate (DEHP)	ND	ND	ND	30	1000
Dibutyl Phthalate (DBP)	ND	ND	ND	30	1000
Benzylbutyl Phthalate (BBP)	ND	ND	ND	30	1000

Tested Item	Result (mg/kg)				MDL (mg/kg)	Limit (mg/kg)
	(1)	(2)	(3)	(4)		
Diisononyl Phthalate (DINP)	ND	ND	ND	ND	50	1000
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	ND	30	1000
Diisodecyl Phthalate (DIDP)	ND	ND	ND	ND	50	1000

Tested Item	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
	(5)	(6)	(7)		
Diisononyl Phthalate (DINP)	ND	ND	ND	50	1000
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	30	1000
Diisodecyl Phthalate (DIDP)	ND	ND	ND	50	1000

Client's additional requirement on other phthalate(s)						
Tested Item	Result (mg/kg)				MDL (mg/kg)	
	(1)	(2)	(3)	(4)		
Di-n-hexyl Phthalate (DnHP)	ND	ND	ND	ND	30	

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Client's additional requirement on other phthalate(s)				
Tested Item	Result (mg/kg)			MDL (mg/kg)
	(5)	(6)	(7)	
Di-n-hexyl Phthalate (DnHP)	ND	ND	ND	30

Tested Component(s):

- (1) Transparent lacquer(box)
- (2) Yellow coating(blocks)
- (3) Green coating(blocks)
- (4) Blue coating(blocks)
- (5) Red coating(blocks)
- (6) Multi-color coating(product label & sticker)
- (7) White paper label(product label & sticker)

Remark:

- mg/kg = parts per million = ppm
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- 1000mg/kg = 0.1%

2) REACH ANNEX XVII

▼ Phthalates in toys and childcare articles

As specified in entry 51 & entry 52, annex XVII of European regulation (EC) No. 1907/2006 (REACH) with amendment No.552/2009, method EN 14372:2004 was used and phthalates were determined by gas chromatograph with mass spectrometer (GC-MS).

Tested Item	Result (mg/kg)				MDL (mg/kg)	Limit (mg/kg)
	(1)	(2)	(3)	(4)		
Di-2-ethylhexyl Phthalate (DEHP)	ND	ND	ND	ND	50	--
Dibutyl Phthalate (DBP)	ND	ND	ND	ND	50	--
Benzylbutyl Phthalate (BBP)	ND	ND	ND	ND	50	--
SUM(DEHP+DBP+BBP)	ND	ND	ND	ND	--	1000

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Tested Item	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
	(5)	(6)	(7)		
Di-2-ethylhexyl Phthalate (DEHP)	ND	ND	ND	50	--
Dibutyl Phthalate (DBP)	ND	ND	ND	50	--
Benzylbutyl Phthalate (BBP)	ND	ND	ND	50	--
SUM(DEHP+DBP+BBP)	ND	ND	ND	--	1000

Tested Item	Result (mg/kg)				MDL (mg/kg)	Limit (mg/kg)
	(1)	(2)	(3)	(4)		
Diisononyl Phthalate (DINP)	ND	ND	ND	ND	50	--
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	ND	50	--
Diisodecyl Phthalate (DIDP)	ND	ND	ND	ND	50	--
SUM(DINP+DNOP+DIDP)	ND	ND	ND	ND	--	1000

Tested Item	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)
	(5)	(6)	(7)		
Diisononyl Phthalate (DINP)	ND	ND	ND	50	--
Di-n-octyl Phthalate (DNOP)	ND	ND	ND	50	--
Diisodecyl Phthalate (DIDP)	ND	ND	ND	50	--
SUM(DINP+DNOP+DIDP)	ND	ND	ND	--	1000

Client's additional requirement on other phthalate(s)					
Tested Item	Result (mg/kg)				MDL (mg/kg)
	(1)	(2)	(3)	(4)	
Di-n-hexyl Phthalate (DnHP)	ND	ND	ND	ND	50

Client's additional requirement on other phthalate(s)					
Tested Item	Result (mg/kg)			MDL (mg/kg)	
	(5)	(6)	(7)		
Di-n-hexyl Phthalate (DnHP)	ND	ND	ND	50	

Tested Component(s):

- (1) Transparent lacquer(box)
- (2) Yellow coating(blocks)

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- (3) Green coating(blocks)
- (4) Blue coating(blocks)
- (5) Red coating(blocks)
- (6) Multi-color coating(product label & sticker)
- (7) White paper label(product label & sticker)

Remark:

- mg/kg = parts per million = ppm
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- 1000mg/kg = 0.1%

3) SOR/2011-17 TOYS REGULATIONS OF CCPSA

▼ Heavy metals contents in surface coatings/paint

With reference to appropriate methods, toxic elements were determined by ICP-OES.

Tested Item	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)	M&D's Limit (mg/kg)
	(1)	(2)	(3)			
Total Lead (Pb)	ND	ND	ND	5	90	30
Mercury (Hg)	ND	ND	ND	2.5	ND(<2.5)	ND

Tested Item	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)	M&D's Limit (mg/kg)
	(4)	(5)	(6)			
Total Lead (Pb)	ND	ND	25	5	90	30
Mercury (Hg)	ND	ND	ND	2.5	ND(<2.5)	ND

Tested Item	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)	M&D's Limit (mg/kg)
	(1)	(2)	(3)			
Soluble Antimony (Sb)	ND	ND	ND	5	1000	25
Soluble Arsenic (As)	ND	ND	ND	5	1000	10
Soluble Cadmium (Cd)	ND	ND	ND	5	1000	40
Soluble Barium (Ba)	8	9	ND	5	1000	500
Soluble Selenium (Se)	ND	ND	ND	5	1000	200

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Tested Item	Result (mg/kg)			MDL (mg/kg)	Limit (mg/kg)	M&D's Limit (mg/kg)
	(4)	(5)	(6)			
Soluble Antimony (Sb)	ND	ND	ND	5	1000	25
Soluble Arsenic (As)	ND	ND	ND	5	1000	10
Soluble Cadmium (Cd)	ND	ND	ND	5	1000	40
Soluble Barium (Ba)	ND	8	17	5	1000	500
Soluble Selenium (Se)	ND	ND	ND	5	1000	200

Tested Component(s):

- (1) Transparent lacquer(box)
- (2) Yellow coating(blocks)
- (3) Green coating(blocks)
- (4) Blue coating(blocks)
- (5) Red coating(blocks)
- (6) Multi-color coating(product label & sticker)

Remark:

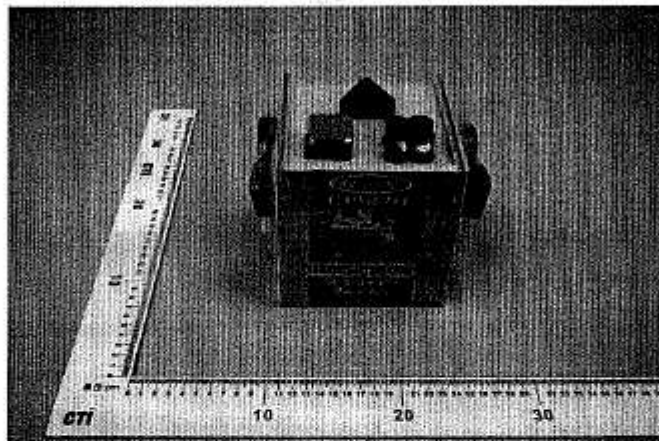
- mg/kg = parts per million = ppm
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit

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Photo of the sample



*** End of Report ***

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