

GWSTC Test Report

Date: 2014-05-04

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NO: GP158793

APPLICANT: (Code: CML001)

Carpenters Manufactory Limited
Huang Jin Ji Industrial Zone
Shang Jie Village, Qi Shi Town
Dongguan City, Guangdong Province
China

Attn: Candy

DESCRIPTION OF SAMPLE(S):

One (1) style, three (3) pieces of submitted sample (photo attached at Appendix A) said to be:
MAGNETIC MAZE
ITEM NO.: ET2A02
COUNTRY OF ORIGIN: CHINA
COUNTRY OF DESTINATION: EUROPE, USA
SUPPLIER/MANUFACTURER: CARPENTERS MANUFACTORY LIMITED

CONCLUSION:

EN71:Part 1:2011+A2:2013

The submitted sample complied with the requirement.

EN71:Part 2:2011

The submitted sample complied with the requirement.

EN71:Part 3:2013

The submitted sample complied with the requirement.

The entry 23 in Annex XVII to Regulation (EC) No. 1907/2006 concerning the REACH

The submitted sample complied with the requirement.

The entries 51 and 52 in Annex XVII to Regulation (EC) No. 1907/2006 concerning the REACH

The submitted sample complied with the requirement.

Approved Signatory:



Feng Jun Guo
Lab Manager

Gong Chen Yin
Technical Supervisor

Hong Kong Accreditation Service (HKAS) has accredited this laboratory under the Hong Kong Laboratory Accreditation Scheme (HOKLAS) for specific laboratory activities as listed in the HOKLAS directory of accredited laboratories. The results show in this report were determined by this laboratory in accordance with its terms of accreditation.

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DATE OF SAMPLE(S) RECEIVED:

2013-11-26, 2014-04-21

INVESTIGATION REQUESTED:

1. European Standard for Safety of toys
 - EN71:Part 1:2011+A2:2013 for mechanical and physical properties test
 - EN71:Part 2:2011 for flammability test
 - EN71:Part 3:2013 for migration of certain elements
2. Total cadmium content in accordance with the entry 23 in Annex XVII to Regulation (EC) No. 1907/2006 concerning the REACH (Previously restricted by EEC Directive 91/338/EEC).
3. Phthalates content in accordance with the entries 51 and 52 in Annex XVII to Regulation (EC) No. 1907/2006 concerning the REACH (Previously restricted by Directive 2005/84/EC).

DATE TESTED:

EN71

Part 1: 2013-11-29, 2014-04-21

Part 2: 2013-11-29

Part 3: 2014-04-24 to 2014-04-30

The entry 23 in Annex XVII to Regulation (EC) No. 1907/2006 concerning the REACH
2014-04-24 to 2014-04-30

The entries 51 and 52 in Annex XVII to Regulation (EC) No. 1907/2006 concerning the REACH
2014-04-24 to 2014-04-30

AGE GRADING:

The sample did not contain any age grade; however, the applicant requested it to be tested according to the age grade of 2 years and up.

AGE GRADING FOR TESTING:

2 years and up

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TEST RESULTS:

1 EN71

1.1 EN71:Part 1:2011+A2:2013 - Mechanical and physical properties (see Remark 1)

<u>Applicable</u> <u>Clause</u>	<u>Description</u>	<u>Result</u>
4	<u>General requirements</u>	----
4.1	Material	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.22	Small balls	Pass
4.23	Magnets	Pass
5	<u>Toys intended for children under 36 months</u>	----
5.1	General requirements	Pass
5.4	Cords, chains and electrical cables in toys	Pass
5.10	Small balls	Pass
7	<u>Warning, marking and instructions for use</u>	----

Remark: Toys made available on the market shall bear the CE marking.
The CE marking shall be affixed visibly, legibly and indelibly.
The CE marking shall be at least 5 mm high.

There was no CE marking to be found on the submitted sample.

The manufacturer (or importer)'s name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.

There was no the information to be found on the submitted sample.

Manufacturers shall ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy.

There was no the information to be found on the submitted sample.

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Manufacturers and importers shall ensure that the toy is accompanied by instructions and safety information in a language or languages easily understood by consumers.

There were no the instructions/safety information to be found in the submitted sample.

Remark 1:

The EN71:Part 1:2011+A2:2013 is not covered by the HOKLAS accreditation.

1.2 EN71:Part 2:2011 - Flammability

Applicable

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General	Pass

1.3 EN71:Part 3:2013 - Migration of certain elements (Category III: Scraped-off materials) (see Remark 2)

Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer/
Gas Chromatograph-Mass Spectrometer/
Liquid Chromatograph-Inductively Coupled Plasma-Mass Spectrometer

Plastic materials

- (a) Magnetic maze: white nylon string
- (b) Magnetic maze: transparent (see Remark 5)
- (c) Magnetic maze: flesh (see Remark 6)

Wood material

- (d) Magnetic maze: light flesh plywood (see Remark 4)

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	<u>(a)</u>	<u>(b)</u>	<u>Limit</u>
Soluble cadmium	<2mg/kg	<2mg/kg	17mg/kg
Soluble arsenic	<5mg/kg	<5mg/kg	47mg/kg
Soluble mercury	<5mg/kg	<5mg/kg	94mg/kg
Soluble antimony	<10mg/kg	<10mg/kg	560mg/kg
Soluble chromium (III)	<10mg/kg	<10mg/kg	460mg/kg
Soluble chromium (VI)	<0.2mg/kg	<0.2mg/kg	0.2mg/kg
Soluble lead	<10mg/kg	<10mg/kg	160mg/kg
Soluble cobalt	<10mg/kg	<10mg/kg	130mg/kg
Soluble selenium	<10mg/kg	<10mg/kg	460mg/kg
Soluble barium	<10mg/kg	<10mg/kg	18750mg/kg
Soluble aluminium	<10mg/kg	<10mg/kg	70000mg/kg
Soluble boron	<10mg/kg	<10mg/kg	15000mg/kg
Soluble copper	<10mg/kg	18mg/kg	7700mg/kg
Soluble manganese	<10mg/kg	<10mg/kg	15000mg/kg
Soluble nickel	<10mg/kg	<10mg/kg	930mg/kg
Soluble strontium	<10mg/kg	<10mg/kg	56000mg/kg
Soluble tin	<4mg/kg	<4mg/kg	180000mg/kg
Soluble zinc	<10mg/kg	<10mg/kg	46000mg/kg
Soluble organic tin	<12mg/kg	<12mg/kg	12mg/kg

	<u>(c)</u>	<u>(d)</u>	<u>Limit</u>
Soluble cadmium	<2mg/kg	<2mg/kg	17mg/kg
Soluble arsenic	<5mg/kg	<5mg/kg	47mg/kg
Soluble mercury	<5mg/kg	<5mg/kg	94mg/kg
Soluble antimony	<10mg/kg	<10mg/kg	560mg/kg
Soluble chromium (III)	<10mg/kg	<10mg/kg	460mg/kg
Soluble chromium (VI)	<0.2mg/kg	<0.2mg/kg	0.2mg/kg
Soluble lead	<10mg/kg	<10mg/kg	160mg/kg
Soluble cobalt	<10mg/kg	<10mg/kg	130mg/kg
Soluble selenium	<10mg/kg	<10mg/kg	460mg/kg
Soluble barium	<10mg/kg	<10mg/kg	18750mg/kg
Soluble aluminium	<10mg/kg	10mg/kg	70000mg/kg
Soluble boron	<10mg/kg	<10mg/kg	15000mg/kg
Soluble copper	<10mg/kg	20mg/kg	7700mg/kg
Soluble manganese	<10mg/kg	<10mg/kg	15000mg/kg
Soluble nickel	<10mg/kg	<10mg/kg	930mg/kg
Soluble strontium	<10mg/kg	<10mg/kg	56000mg/kg
Soluble tin	<4mg/kg	<4mg/kg	180000mg/kg
Soluble zinc	<10mg/kg	51mg/kg	46000mg/kg
Soluble organic tin	<12mg/kg	<12mg/kg	12mg/kg

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2. Entry 23 in Annex XVII to Regulation (EC) No. 1907/2006 concerning the REACH - Total cadmium analysis (see Remark 2)
Determined by: Inductively Coupled Plasma-Optical Emission Spectrometer

Paint materials (on dried film) (see Remark 3)

- (a) Bright red (A1Y)
- (b) Orange (A2Y)
- (c) Dark green (A5Y)
- (d) Light blue (A8Y)

Plastic materials

- (e) Magnetic maze: white nylon string
- (f) Magnetic maze: transparent (see Remark 2)
- (g) Magnetic maze: flesh (see Remark 3)

Wood material

- (h) Magnetic maze: light flesh plywood

Plastic materials

- (i) Magnetic maze: red beads
- (j) Magnetic maze: yellow beads
- (k) Magnetic maze: blue beads

Metallic materials

- (l) Magnetic maze: dull silver steel beads
- (m) Magnetic maze: silver magnet

<u>Sample</u>	<u>Result</u>	<u>Acceptable Limit</u>
(a)~(h)	<5mg/kg	100mg/kg
(i)+(j)+(k)*	<5mg/kg	100mg/kg
(l)~(m)	<5mg/kg	100mg/kg

3. Entries 51 and 52 in Annex XVII to Regulation (EC) No. 1907/2006 concerning the REACH - Phthalates analysis
Method used: EN14372-2004
Determined by: Gas Chromatograph-Mass Spectrometry

Plasticised material in toys and childcare articles which can be placed in the mouth by children

Paint materials (on dried film) (see Remark 3)

- (a) Bright red (A1Y)
- (b) Orange (A2Y)
- (c) Dark green (A5Y)
- (d) Light blue (A8Y)

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Plastic materials

- (e) Magnetic maze: white nylon string
- (f) Magnetic maze: transparent (see Remark 5)
- (g) Magnetic maze: flesh (see Remark 6)

Wood material

- (h) Magnetic maze: light flesh plywood

Plastic materials

- (i) Magnetic maze: red beads
- (j) Magnetic maze: yellow beads
- (k) Magnetic maze: blue beads

Short form	Full name	(a)~(h)	(i)+(j)+(k)*	Limit
(DEHP)	Di (2-ethylhexyl) phthalate	Non-detected	Non-detected	---
(BBP)	Butyl benzyl phthalate	Non-detected	Non-detected	---
(DBP)	Di-butyl phthalate	Non-detected	Non-detected	---
(DINP)	Di-iso-nonyl phthalate	Non-detected	Non-detected	---
(DIDP)	Di-iso-decyl phthalate	Non-detected	Non-detected	---
(DNOP)	Di-n-octyl phthalate	Non-detected	Non-detected	---
Sum of DEHP/BBP/DBP		Non-detected	Non-detected	0.1%
Sum of DINP/DIDP/DNOP		Non-detected	Non-detected	0.1%

Note: Method detection limit for BBP, DBP, DEHP, DNOP, DINP, DIDP = 0.01% (w/w)

* = As required by client, the specimens were mixed into one for test. When testing, equal weight of each sample was used. In this circumstance, the lowest individual sample weight was used to calculate the test result.

Remark 2:

The EN71:Part 3:2013 and total cadmium analysis is not covered by the HOKLAS accreditation.

Remark 3:

The test results are transferred from the test report GP158735 which issued on 2013-11-26.

Remark 4:

The test results are transferred from the test report GP158738 which issued on 2013-11-29.

Remark 5:

The test results are transferred from the test report GP158818 which issued on 2013-12-24.

Remark 6:

The test results are transferred from the test report GP158858 which issued on 2013-12-13.

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Appendix A



PHOTOGRAPH(S) OF THE SAMPLE

***** End of Document *****

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The Report refers only to the sample tested and does not apply to the bulk, unless the sampling has been carried out by the Company and is stated as such in the Report.
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