

MI TOYS INTERNATIONAL LIMITED  
UNIT 708-709, 7<sup>TH</sup> FLOOR, TITAN TOWER NO.535, TIAN TONG SOUTH ROAD, NINGBO, CHINA

The following samples were submitted and identified on behalf of the client as:

Sample Description : 3D WOODEN PUZZLE ASSORTMENT  
Detail of Sample : 6 STYLES ASSORTED WOODEN 3D PUZZLES, PLASTIC BOX WITH WOODEN BASE PACKED.  
Sample Quantity : 18 PCS  
Style / Item No. : MT1151  
Supplier : MI TOYS INTERNATIONAL LIMITED  
Country of Origin : CHINA  
Labeled Age Grading : 6+ YEARS  
Requested Age Grading : 6+ YEARS  
Age Group Applied in Testing : 6+ YEARS  
Age Group Assessed As Per Age Guideline : 6+ YEARS  
Sample Receiving Date : MAY 29, 2012  
Further Information Date : MAY 29, 2012  
Testing Period : MAY 29, 2012 TO JUN 20, 2012

**Test Requested****Result**

- |   |                            |
|---|----------------------------|
| 1. For compliance with the European Standard on Safety of Toys :-<br>EN71 Part 1:2011– Mechanical and Physical Properties   | <u>Pass</u>                |
| EN71 Part 2:2011– Flammability  | <u>Pass</u>                |
| EN71 Part 3:1994 + A1:2000 + AC:2002 – Migration of Certain Elements  | <u>Pass</u>                |
| Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to the Directive 2009/48/EC-Safety of toys | <u>Refer to next pages</u> |
| 2. Phthalate  | <u>Pass</u>                |
| 3. Cadmium (Cd)   | <u>Pass</u>                |

Signed for and on behalf of  
SGS-CSTC Ltd.



Wallace Lui  
Senior Technical Manager, Asia

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Results :

1. European Standard on Safety of Toys

**- Mechanical and Physical Properties**

AS SPECIFIED IN EUROPEAN STANDARD ON SAFETY OF TOYS - EN 71 Part 1:2011

| <u>Clause</u> | <u>Description</u>   | <u>Result</u>     |
|---------------|--|-------------------|
| 4             | General requirements   |                   |
| 4.1           | Material cleanliness   | <u>Pass</u>       |
| 4.7           | Edges  | <u>Pass</u>       |
| 4.8           | Points and Metallic Wires  | <u>Pass</u>       |
| 4.22          | Small balls  | <u>Pass</u>       |
| 5             | Toys intended for children under 36 months   |                   |
| 5.1           | General requirements:<br>(Remark :Wooden blocks are small parts as received. It is acceptable because appropriate age warning was found on the packaging.) | <u>See Remark</u> |
| 7             | Warnings, markings and instructions for use  |                   |
| 7.1           | General Requirements   | <u>Pass</u>       |
| 7.2           | Toys not intended for children under 36months  | <u>Pass</u>       |

**- Flammability of Toys**

AS SPECIFIED IN EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 2: 2011

| <u>Clause</u> | <u>Description</u>   | <u>Result</u> |
|---------------|----------------------|---------------|
| 4.1           | General requirements | <u>Pass</u>   |

**- Migration of Certain Elements**

Test Method : With reference to EN 71 Part 3:1994 + A1:2000 + AC: 2002, analysis was performed by ICP-OES

| <u>Test Item(s)</u>   | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>003</u> | <u>004</u> | <u>005</u> |
|-----------------------|--------------|-------------|------------|------------|------------|------------|
| Soluble Lead (Pb)     | 90           | mg/kg       | 5          | ND         | ND         | ND         |
| Soluble Antimony (Sb) | 60           | mg/kg       | 5          | ND         | ND         | ND         |
| Soluble Arsenic (As)  | 25           | mg/kg       | 2.5        | ND         | ND         | ND         |
| Soluble Barium (Ba)   | 1000         | mg/kg       | 10         | ND         | ND         | ND         |
| Soluble Cadmium (Cd)  | 75           | mg/kg       | 5          | ND         | ND         | ND         |
| Soluble Chromium (Cr) | 60           | mg/kg       | 5          | ND         | ND         | ND         |
| Soluble Mercury (Hg)  | 60           | mg/kg       | 5          | ND         | ND         | ND         |
| Soluble Selenium (Se) | 500          | mg/kg       | 10         | ND         | ND         | ND         |

Notes :

(1) Results shown are of the adjusted analytical results.

Test Part Description :

| <u>Specimen No.</u> | <u>SGS Sample ID</u> | <u>Description</u>  |
|---------------------|----------------------|---------------------|
| 1                   | NGB12-008546.003     | Transparent coating |
| 2                   | NGB12-008546.004     | Natural wood        |
| 3                   | NGB12-008546.005     | Deep brown wood     |

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Remarks :

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

**- Labeling requirement (Washing/Cleaning instruction, CE mark, importer / manufacturer name and address, product identification) according to the Directive 2009/48/EC – Safety of toys**

Summary table:

|                               | Observation Result | Location  |
|-------------------------------|--------------------|-----------|
| CE mark                       | Present            | Packaging |
| Importer's Name & Address     | Absent             | /         |
| Manufacturer's Name & Address | Absent             | /         |
| Product ID                    | Present            | Packaging |

Note:

- CE marking should be visible from outside the packaging and its height must be at least 5mm.
- Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
- Manufacturers must 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 does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

N.B. : - Only applicable clauses were shown.

- Entry 51 & 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC)

Test Method : With reference to ASTM D 3421-75, analysis was performed by GC-MS.

| Test Item(s)  | Limit | Unit | MDL   | 001 | 002 | 003 |
|---|-------|------|-------|-----|-----|-----|
| <b>1. For all toys and childcare articles</b>                 |       |      |       |     |     |     |
| Dibutyl Phthalate (DBP)                                       | -     | %    | 0.003 | ND  | ND  | ND  |
| Benzylbutyl Phthalate (BBP)                                   | -     | %    | 0.003 | ND  | ND  | ND  |
| Bis-(2-ethylhexyl) Phthalate (DEHP)                           | -     | %    | 0.003 | ND  | ND  | ND  |
| Total (DBP+BBP+DEHP)  | 0.1   | %    | -     | ND  | ND  | ND  |
| <b>2. For toys and childcare articles that can be mouthed</b> |       |      |       |     |     |     |
| Diisononyl Phthalate (DINP)                                   | -     | %    | 0.010 | ND  | ND  | ND  |
| Di-n-octyl Phthalate (DNOP)                                   | -     | %    | 0.003 | ND  | ND  | ND  |
| Diisodecyl Phthalate (DIDP)                                   | -     | %    | 0.010 | ND  | ND  | ND  |
| Total (DINP+DNOP+DIDP)  | 0.1   | %    | -     | ND  | ND  | ND  |

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- (1) European Parliament adopted new phthalate Entry 51 & 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC);
  - (1-1) DBP, BBP and DEHP are totally banned for use in any toys on childcare articles where their concentration exceeds 0.1% by mass.
  - (1-2) DINP, DNOP, DIDP are totally banned for use in toys and childcare articles that can be mouthed where their concentration exceeds 0.1% by mass.
3. Commission Regulation (EU) No 494/2011 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under entry 23 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006)-Cadmium (Cd)

Test Method : With reference to EN 1122:2001 Method B. Analysis was performed by ICP-OES.

| Test Item(s) | Limit | Unit  | MDL | 001 | 002 |
|--------------|-------|-------|-----|-----|-----|
| Cadmium (Cd) | 100   | mg/kg | 5   | ND  | ND  |

| Test Item(s) | Limit | Unit  | MDL | 003 |
|--------------|-------|-------|-----|-----|
| Cadmium (Cd) | 1000  | mg/kg | 5   | ND  |

Test Part Description :

| Specimen No. | SGS Sample ID    | Description                               |
|--------------|------------------|---|
| 1            | NGB12-008546.001 | Transparent plastic box                   |
| 2            | NGB12-008546.002 | Transparent paster with silvery pringting |
| 3            | NGB12-008546.003 | Transparent coating                       |

Remarks :

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

**Sample Photo:**



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\*\*\* End of Report \*\*\*

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