

**Test Report No. F690101/LF-CTSAYHA13-05147** Issued Date : August 20, 2013 Page 1 of 5

To: **3M Korea**  
 27-3, Yoido-dong  
 Yeongdeungpo-gu  
 Seoul  
 Korea

The following sample(s) was/were submitted and identified on behalf of the client as : -

**SGS Job No..** : AYHA13-05147  
**Sample Description** : Cabinet lock  
**Detail of Sample** : Plastic – cabinet lock  
**Style /Item No.** : -  
**Packaging** : Not provided  
**Instructions for use/assembly** : Not provided  
**Buyer** : -  
**Country of Origin** : KOREA  
**Country of Destination** : KOREA, TAIWAN, SINGAPORE, THAILAND  
**Labeled age grading** : None  
**Requested age** : None  
**SGS assessed age (based on CR 14379/ASTM F963)** : 3 Years and over  
**Sample Receiving Date** : JUL. 31, 2013  
**Testing Period** : AUG. 01, 2013 to AUG. 20, 2013  
**Test Performed** : SGS Korea tested the sample(s) selected by applicant with following result.  
**Test Result(s)** : For further details, please refer to following page (s)  
**Result Summary** :

| Test Requested                                                                                                                                                                                                                                    | Conclusion         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|
| For compliance with the European Standard on Safety of Toys :-<br><br>This is not a toy, the EN 71 standard was applied as per client request. There may be additional hazards and labeling requirements that are not covered by this standard :- | -                  |
| <b>EN71 Part 1:2011 Safety of toys – Mechanical and Physical Properties</b>                                                                                                                                                                       | <b>PASS</b>        |
| <b>Labeling requirement ( Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to the Directive 2009/48/EC-Safety of toys</b>                                                         | <b>See note 1*</b> |
| <b>EN71-3: 2013 – Migration of certain elements (By all conclusive testing)</b><br><br>(Selected tests item as specified by the applicant, please refer to test result page(s) for details)                                                       | <b>PASS</b>        |

SGS Korea Co., Ltd.



Tommy Oh / Technical Manager

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**Test Conducted**

European Standard on Safety of Toys  
 - Mechanical & Physical Properties  
 As specified in European standard on safety of toys EN 71 PART 1: 2011

| Clause | Description                                                                                                                                                                                                                                 | Result     |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 4      | General requirements                                                                                                                                                                                                                        | -          |
| 4.1    | Material cleanliness                                                                                                                                                                                                                        | Pass       |
| 4.7    | Edges                                                                                                                                                                                                                                       | Pass       |
| 4.8    | Points and metallic wires                                                                                                                                                                                                                   | Pass       |
| 5      | Toys intended for children under 36 months                                                                                                                                                                                                  | -          |
| 5.1    | General requirements<br>(Remark: Small part was found. Therefore, the toy should be warned in accordance with 7.2.)                                                                                                                         | See remark |
| 7      | Warnings, marking and instructions for use                                                                                                                                                                                                  | -          |
| 7.2    | Toys not intended for children under 36months<br>(Remark: In order to comply with the requirements of this clause, the toy or its packaging must be marked with<br><b>“WARNING! Not suitable for children under 3 years. Small part.”</b> ) | See remark |

N.B. : Only applicable clauses were shown.

See note 1\*

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

Summary table:

|                               | Observation Result | Location   |
|-------------------------------|--------------------|------------|
| Washing/Cleaning instruction  | Not applicable     | -          |
| CE mark                       | Absent             | See note 1 |
| Importer's Name & Address     | Absent             | See note 2 |
| Manufacturer's Name & Address | Absent             | See note 2 |
| Product ID                    | Absent             | See note 3 |

Note:

1. CE marking should be visible from outside the packaging and its height must be at least 5mm.
2. 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.
3. 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.

**Test Results :**

**Category III: Scrapped-off toy material**

Method : With reference to EN71-3:2013. Analysis of general elements was performed by ICP-MS. Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV/VIS. Organic Tin was analyzed by GC-MS.

| Test Item                         | Result (mg/kg) |      | Reporting Limit (mg/kg) | Permissible Limit (mg/kg) |
|-----------------------------------|----------------|------|-------------------------|---------------------------|
|                                   | 1              | 2    |                         |                           |
| Mass of trace amount (mg)         | --             | --   | --                      | --                        |
| Soluble Aluminium (Al)            | ND             | ND   | 50                      | 70,000                    |
| Soluble Antimony (Sb)             | ND             | ND   | 10                      | 560                       |
| Soluble Arsenic (As)              | ND             | ND   | 10                      | 47                        |
| Soluble Barium (Ba)               | ND             | ND   | 50                      | 18,750                    |
| Soluble Boron (B)                 | ND             | ND   | 50                      | 15,000                    |
| Soluble Cadmium (Cd)              | ND             | ND   | 5                       | 17                        |
| Soluble Chromium (Cr)             | ND             | ND   | 0.15                    | --                        |
| Soluble Chromium (III) (Cr (III)) | ND             | ND   | 1                       | 460                       |
| Soluble Chromium (VI) (Cr (VI))   | ND             | ND   | 0.18                    | 0.2                       |
| Soluble Cobalt (Co)               | ND             | ND   | 10                      | 130                       |
| Soluble Copper (Cu)               | ND             | ND   | 50                      | 7,700                     |
| Soluble Lead (Pb)                 | ND             | ND   | 10                      | 160                       |
| Soluble Manganese (Mn)            | ND             | ND   | 50                      | 15,000                    |
| Soluble Mercury (Hg)              | ND             | ND   | 10                      | 94                        |
| Soluble Nickel (Ni)               | ND             | ND   | 10                      | 930                       |
| Soluble Selenium (Se)             | ND             | ND   | 10                      | 460                       |
| Soluble Strontium (Sr)            | ND             | ND   | 50                      | 56,000                    |
| Soluble Tin (Sn)                  | ND             | ND   | 4.9                     | 180,000                   |
| Soluble Organic Tin --            | ND             | ND   | --                      | 12                        |
| Soluble Zinc (Zn)                 | ND             | ND   | 50                      | 46,000                    |
| <b>Comment</b>                    | PASS           | PASS | --                      | --                        |

**Sample Description :**

- 1. White plastic
- 2. White foam

| Test Item(s)            | Soluble Organic Tin Result(s) (mg/kg) |    | MDL (mg/kg) |
|-------------------------|---------------------------------------|----|-------------|
|                         | 1                                     | 2  |             |
| Methyl tin (MeT)        | ND                                    | ND | 0.5         |
| Di-n-propyl tin (DProT) | ND                                    | ND | 0.5         |
| Butyl tin (BuT)         | ND                                    | ND | 0.5         |
| Dibutyl tin (DBT)       | ND                                    | ND | 0.5         |
| Tributyl tin (TBT)      | ND                                    | ND | 0.5         |
| n-Octyl tin (MOT)       | ND                                    | ND | 0.5         |
| Tetrabutyl tin (TeBT)   | ND                                    | ND | 0.5         |
| Diphenyl tin (DPhT)     | ND                                    | ND | 0.5         |
| Di-n-octyl tin (DOT)    | ND                                    | ND | 0.5         |
| Triphenyl tin (TPhT)    | ND                                    | ND | 0.5         |

**Sample Description :**

1. White plastic
2. White foam

- Note.
1. mg/kg = milligram per kilogram
  2. ND = Not Detected
  3. 1% = 10000 mg/kg = 10000 ppm



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