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## TEST REPORT

Number: BKKH16005543

Applicant: PLAN CREATIONS CO., LTD.  
8 MOO 8, TRANG-PALIAN RD.,  
YANTAKAO, TRANG, THAILAND 92140  
ATTN: K.NARONG, K.SUPAPORN

Date: May 11, 2016

### Sample description:

|                            |                |
|----------------------------|----------------|
| Quantity of sample:        | One (1) set    |
| Sample description:        | Wooden toy     |
| Date sample received:      | April 19, 2016 |
| Date Information received: | May 09, 2016   |

### Client Information:

One (1) set of submitted sample said to be ROAD & RAIL

|              |             |
|--------------|-------------|
| Item Name:   | ROAD & RAIL |
| Item Number: | 6608        |



### Tests conducted:

As requested by the applicant, for details please refer to attached pages.

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Authorized by :

For Intertek Testing Services (Thailand)

Ladtaka Wongwiboonporn  
Laboratory Manager  
Hardlines Department

### Intertek Testing Services (Thailand) Ltd.

1285/5 Prachachuen Road, Wong-Sawang, Bangsue, Bangkok 10800 Thailand

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## TEST REPORT

Number: BKKH16005543

### Conclusion:

| <u>Tested samples</u> | <u>Standard</u>  | <u>Result</u> |
|-----------------------|--|---------------|
| Submitted samples     | EN71-1 : 2014<br>Mechanical and physical properties        | Pass*         |
|                       | EN71-2 : 2011 + A1 : 2014<br>Flammability test             | Pass          |
|                       | EN71-3 : 2013 + A1 : 2014<br>Migration of certain elements | Pass**        |

Remark: \* = Please draw your attention on clause 7 in test report.

\*\*\*\*\*

Note: \*\* = The components as below was comply to EN71-3 : 2013 + A1 : 2014.

| <u>Components</u>               | <u>Report No.</u> | <u>Date</u>  |
|---------------------------------|-------------------|--------------|
| 5020038 : Lacquer Water Base    | BKKH15000568      | Jan 21, 2015 |
| 5029034 Green Coating On Wood   | BKKH15002674      | Mar 09, 2015 |
| 5320039 : Gray Coating On Wood  | BKKH15002903      | Mar 09, 2015 |
| 5020031 Green coating on wood   | BKKH15010877      | Aug 28, 2015 |
| Solid wood                      | BKKH15014517      | Nov 20, 2015 |
| Sawdust Wood                    | BKKH15014517      | Nov 20, 2015 |
| 5023006 Red Sawdust             | BKKH15014511      | Nov 26, 2015 |
| 5023009 Blue Sawdust            | BKKH15014512      | Nov 27, 2015 |
| 5029037 Red Coating On Wood     | BKKH15014512      | Nov 27, 2015 |
| 5020035 Yellow Coating On Wood  | BKKH15014510      | Nov 27, 2015 |
| 5020029 White Coating On Wood   | BKKH15014509      | Nov 27, 2015 |
| 5023003 : Orange Sawdust        | BKKH15015045      | Dec 09, 2015 |
| BLACK RUBBER                    | BKKH16000976      | Jan 27, 2016 |
| WHITE PLASTIC (WHEEL)           | BKKH16000976      | Jan 27, 2016 |
| Black plastic                   | BKKH16004153      | Mar 28, 2016 |
| 5029036 : Black coating on wood | BKKH16004630      | Apr 08, 2016 |
| 5320018 White Coating On Wood   | BKKH15014515      | Nov 27, 2015 |
| 5320019 Black Coating On Wood   | BKKH15014515      | Nov 27, 2015 |

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## TEST REPORT

Number: BKKH16005543

Test conducted:

1 Mechanical and Physical Test

As per European Standard on Safety of toys EN71-1 : 2014.

Applicant's specified age group for testing : For age over 3 years

| Clause   | Requirements                                       | Results    |
|----------|--|------------|
| <b>4</b> | <b>General requirements</b>                        |            |
| 4.1      | Material cleanliness                               | Pass       |
| 4.7      | Edges  | Pass       |
| 4.8      | Points and metallic wires                          | Pass       |
| <b>7</b> | <b>Warnings, markings and instructions for use</b> | See remark |

Note : The above clauses appropriate to this item. Those clauses not referred to were considered not applicable.

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## TEST REPORT

Number: BKKH16005543

Test conducted:

Remark :

Below are additional information according to the Toy Safety Directives 2009/48/EC requirement.  
These information also appears as a note within the EN71 but are not standard requirements:

### 1. Marking

The manufacturer's and importer's name, registered trade name or registered trade mark, the address and type, batch, serial or model number or other element allowing their identification shall be indicated on the product itself. In addition, toys or packagings shall also bear the CE-marking.

After checking, it was found that:

- Manufacturer's name was on the packaging & toy.
- Manufacturer's address was on the packaging.
- Importer's name was missed on the packaging & toy.
- Importer's address was missed on the packaging & toy.
- Product identification code was on the packaging.
- CE-marking was on the packaging.
- CE-marking was in correct format.

Testing period : April 19, 2016 to

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## TEST REPORT

Number: BKKH16005543

Test conducted:

### 2 Flammability Test

As per European Standard on Safety of Toys EN71-2 : 2011 + A1 : 2014.

| <u>Clause</u> | <u>Testing items</u>  | <u>Assessment</u> |
|---------------|---|-------------------|
| 4.1           | General   | P                 |
| 4.2           | Toys to be worn on the head   | NA                |
| 4.3           | Toy disguise costumes and toys intended to be worn by a child in play | NA                |
| 4.4           | Toys intended to be entered by a child                                | NA                |
| 4.5           | Soft filled toys  | NA                |

Remark :      P = Pass                      NA = Not applicable

Testing period : April 19, 2016 to

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Number: BKKH16005543

## TEST REPORT

Test conducted:

3 19 Toxic elements migration test

(A) Test result

With reference to BS EN 71-3: 2013 +A1 : 2014. Determined by ICP-MS and GC-MS.

Category (III): Scraped-off toy material

| <u>Element (Soluble)</u>  | <u>Result (mg/kg)</u> |       |       |       |       | <u>LOD</u> | <u>LOQ</u> | <u>Limit</u> |
|---------------------------|-----------------------|-------|-------|-------|-------|------------|------------|--------------|
|                           | (1)                   | (2)   | (3)   | (4)   | (5)   | (mg/kg)    | (mg/kg)    | (mg/kg)      |
| Aluminium (Al)            | ND                    | 126   | 19    | 193   | <5    | 1          | 5          | 70000        |
| Antimony (Sb)             | ND                    | ND    | ND    | ND    | ND    | 1          | 5          | 560          |
| Arsenic (As)              | ND                    | 0.42  | 0.11  | <0.1  | ND    | 0.02       | 0.1        | 47           |
| Barium (Ba)               | ND                    | 11    | ND    | <5    | ND    | 1          | 5          | 18750        |
| Boron (B)                 | <5                    | <5    | ND    | 6     | ND    | 1          | 5          | 15000        |
| Cadmium (Cd)              | ND                    | 0.14  | ND    | <0.1  | <0.1  | 0.02       | 0.1        | 17           |
| Chromium (Cr) Δ           | 0.06                  | 6.418 | 0.064 | 0.326 | 0.025 | 0.001      | 0.005      | -            |
| Chromium (III) (Cr III) ▲ | NC                    | NC    | NC    | NC    | NC    | -          | -          | 460          |
| Chromium (VI) (Cr VI) ▲   | NC                    | <0.2# | NC    | <0.2# | NC    | -          | -          | 0.2          |
| Cobalt (Co)               | ND                    | ND    | ND    | ND    | ND    | 0.2        | 1          | 130          |
| Copper (Cu)               | <5                    | 6     | ND    | <5    | ND    | 1          | 5          | 7700         |
| Lead (Pb)                 | ND                    | 2.6   | ND    | <1    | 1     | 0.2        | 1          | 160          |
| Manganese (Mn)            | <5                    | 23    | ND    | <5    | 40    | 1          | 5          | 15000        |
| Mercury (Hg)              | ND                    | <1    | ND    | ND    | ND    | 0.2        | 1          | 94           |
| Nickel (Ni)               | ND                    | ND    | ND    | ND    | ND    | 1          | 5          | 930          |
| Selenium (Se)             | ND                    | ND    | ND    | ND    | ND    | 1          | 5          | 460          |
| Strontium (Sr)            | ND                    | <5    | <5    | ND    | 22    | 1          | 5          | 56000        |
| Tin (Sn) ΔΔ               | <1                    | 1.71  | ND    | ND    | 3     | 0.2        | 1          | 180000       |
| Organic tin               | NC                    | NC    | NC    | NC    | NC    | 1          | 3          | 12           |
| Zinc (Zn)                 | 14                    | 25    | 15    | 87    | 8     | 1          | 5          | 46000        |

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## TEST REPORT

Number: BKKH16005543

Test conducted:

### 19 Toxic elements migration test

#### (A) Test result

With reference to BS EN 71-3: 2013 +A1 : 2014. Determined by ICP-MS and GC-MS.

Category (III): Scraped-off toy material

| <u>Element (Soluble)</u>  | <u>Result (mg/kg)</u> |       |       |       |       | <u>LOD</u> | <u>LOQ</u> | <u>Limit</u> |
|---------------------------|-----------------------|-------|-------|-------|-------|------------|------------|--------------|
|                           | (6)                   | (7)   | (8)   | (9)   | (10)  | (mg/kg)    | (mg/kg)    | (mg/kg)      |
| Aluminium (Al)            | 166                   | <5    | 19    | 7     | 222   | 1          | 5          | 70000        |
| Antimony (Sb)             | ND                    | ND    | ND    | ND    | ND    | 1          | 5          | 560          |
| Arsenic (As)              | ND                    | ND    | <0.1  | <0.1  | <0.1  | 0.02       | 0.1        | 47           |
| Barium (Ba)               | <5                    | <5    | 13    | 7     | 7     | 1          | 5          | 18750        |
| Boron (B)                 | 64                    | 40    | 59    | 29    | 35    | 1          | 5          | 15000        |
| Cadmium (Cd)              | <0.1                  | <0.1  | <0.1  | <0.1  | 0.25  | 0.02       | 0.1        | 17           |
| Chromium (Cr) Δ           | 0.066                 | 0.024 | 0.062 | 0.262 | 0.329 | 0.001      | 0.005      | -            |
| Chromium (III) (Cr III) ▲ | NC                    | NC    | NC    | NC    | NC    | -          | -          | 460          |
| Chromium (VI) (Cr VI) ▲   | NC                    | NC    | NC    | <0.2# | <0.2# | -          | -          | 0.2          |
| Cobalt (Co)               | ND                    | ND    | ND    | ND    | ND    | 0.2        | 1          | 130          |
| Copper (Cu)               | ND                    | ND    | ND    | <5    | <5    | 1          | 5          | 7700         |
| Lead (Pb)                 | 2                     | 1     | 1     | <1    | <1    | 0.2        | 1          | 160          |
| Manganese (Mn)            | 44                    | 51    | 53    | 27    | 14    | 1          | 5          | 15000        |
| Mercury (Hg)              | ND                    | ND    | ND    | ND    | ND    | 0.2        | 1          | 94           |
| Nickel (Ni)               | <5                    | ND    | ND    | <5    | <5    | 1          | 5          | 930          |
| Selenium (Se)             | ND                    | ND    | ND    | ND    | ND    | 1          | 5          | 460          |
| Strontium (Sr)            | 10                    | 9     | 7     | 5     | <5    | 1          | 5          | 56000        |
| Tin (Sn) ΔΔ               | <1                    | ND    | ND    | ND    | ND    | 0.2        | 1          | 180000       |
| Organic tin               | NC                    | NC    | NC    | NC    | NC    | 1          | 3          | 12           |
| Zinc (Zn)                 | 17                    | 9     | 14    | 12    | 115   | 1          | 5          | 46000        |

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## TEST REPORT

Test conducted:

### 19 Toxic elements migration test

#### (A) Test result

With reference to BS EN 71-3: 2013 +A1 : 2014. Determined by ICP-MS and GC-MS.

Category (III): Scraped-off toy material

| <u>Element (Soluble)</u>  | <u>Result (mg/kg)</u> |       |       |       |       | <u>LOD</u> | <u>LOQ</u> | <u>Limit</u> |
|---------------------------|-----------------------|-------|-------|-------|-------|------------|------------|--------------|
|                           | (11)                  | (12)  | (13)  | (14)  | (15)  | (mg/kg)    | (mg/kg)    | (mg/kg)      |
| Aluminium (Al)            | 1383                  | 5     | ND    | ND    | ND    | 1          | 5          | 70000        |
| Antimony (Sb)             | ND                    | ND    | ND    | ND    | ND    | 1          | 5          | 560          |
| Arsenic (As)              | <0.1                  | ND    | ND    | ND    | ND    | 0.02       | 0.1        | 47           |
| Barium (Ba)               | <5                    | <5    | ND    | ND    | ND    | 1          | 5          | 18750        |
| Boron (B)                 | 16                    | 8     | ND    | ND    | ND    | 1          | 5          | 15000        |
| Cadmium (Cd)              | <0.1                  | <0.1  | ND    | ND    | ND    | 0.02       | 0.1        | 17           |
| Chromium (Cr) Δ           | 0.204                 | 1.097 | 0.022 | 0.023 | 0.008 | 0.001      | 0.005      | -            |
| Chromium (III) (Cr III) ▲ | NC                    | NC    | NC    | NC    | NC    | -          | -          | 460          |
| Chromium (VI) (Cr VI) ▲   | <0.2#                 | <0.2# | NC    | NC    | NC    | -          | -          | 0.2          |
| Cobalt (Co)               | ND                    | ND    | ND    | ND    | ND    | 0.2        | 1          | 130          |
| Copper (Cu)               | <5                    | ND    | ND    | ND    | ND    | 1          | 5          | 7700         |
| Lead (Pb)                 | 1                     | 2     | ND    | ND    | ND    | 0.2        | 1          | 160          |
| Manganese (Mn)            | 9                     | 46    | ND    | ND    | ND    | 1          | 5          | 15000        |
| Mercury (Hg)              | ND                    | ND    | ND    | ND    | ND    | 0.2        | 1          | 94           |
| Nickel (Ni)               | ND                    | ND    | ND    | ND    | ND    | 1          | 5          | 930          |
| Selenium (Se)             | ND                    | ND    | ND    | ND    | ND    | 1          | 5          | 460          |
| Strontium (Sr)            | <5                    | 7     | ND    | ND    | ND    | 1          | 5          | 56000        |
| Tin (Sn) ΔΔ               | ND                    | ND    | ND    | ND    | ND    | 0.2        | 1          | 180000       |
| Organic tin               | NC                    | NC    | NC    | NC    | NC    | 1          | 3          | 12           |
| Zinc (Zn)                 | 11                    | 9     | <5    | ND    | <5    | 1          | 5          | 46000        |

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## TEST REPORT

Test conducted:

### 19 Toxic elements migration test

#### (A) Test result

With reference to BS EN 71-3: 2013 +A1 : 2014. Determined by ICP-MS and GC-MS.

Category (III): Scraped-off toy material

| <u>Element (Soluble)</u>  | <u>Result (mg/kg)</u> |       |       | <u>LOD</u> | <u>LOQ</u> | <u>Limit</u> |
|---------------------------|-----------------------|-------|-------|------------|------------|--------------|
|                           | (16)                  | (17)  | (18)  | (mg/kg)    | (mg/kg)    | (mg/kg)      |
| Aluminium (Al)            | 5                     | 1599  | <5    | 1          | 5          | 70000        |
| Antimony (Sb)             | ND                    | ND    | ND    | 1          | 5          | 560          |
| Arsenic (As)              | 0.12                  | <0.10 | ND    | 0.02       | 0.1        | 47           |
| Barium (Ba)               | 9                     | 67    | 7     | 1          | 5          | 18750        |
| Boron (B)                 | 45                    | <5    | <5    | 1          | 5          | 15000        |
| Cadmium (Cd)              | 0.12                  | <0.10 | <0.10 | 0.02       | 0.1        | 17           |
| Chromium (Cr) Δ           | 0.47                  | 0.25  | 0.102 | 0.001      | 0.005      | -            |
| Chromium (III) (Cr III) ▲ | 0.47                  | NC    | NC    | -          | -          | 460          |
| Chromium (VI) (Cr VI) ▲   | <0.2#                 | <0.2# | NC    | -          | -          | 0.2          |
| Cobalt (Co)               | ND                    | ND    | ND    | 0.2        | 1          | 130          |
| Copper (Cu)               | <5                    | ND    | ND    | 1          | 5          | 7700         |
| Lead (Pb)                 | <1                    | ND    | <1    | 0.2        | 1          | 160          |
| Manganese (Mn)            | 26                    | 7     | 10    | 1          | 5          | 15000        |
| Mercury (Hg)              | ND                    | ND    | ND    | 0.2        | 1          | 94           |
| Nickel (Ni)               | <5                    | ND    | ND    | 1          | 5          | 930          |
| Selenium (Se)             | ND                    | ND    | ND    | 1          | 5          | 460          |
| Strontium (Sr)            | 7                     | 10    | <5    | 1          | 5          | 56000        |
| Tin (Sn) ΔΔ               | 4                     | ND    | ND    | 0.2        | 1          | 180000       |
| Organic tin               | NC                    | NC    | NC    | 1          | 3          | 12           |
| Zinc (Zn)                 | 9                     | 5     | 8     | 1          | 5          | 46000        |

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Number: BKKH16005543

## TEST REPORT

Test conducted:

Remark: mg/kg = Milligram per kilogram = ppm  
< = Less than  
NC = Not conducted  
ND = Not detected (Less than LOD)  
LOD = Limit of Detection  
LOQ = Limit of Quantitation  
▲ = Tested items are not included in the TISI Accreditation

Δ= If the migration of total Chromium is below the maximum limit for Chromium (VI), it can be inferred that the material complies with the requirements for both Chromium (III) and Chromium (VI).

ΔΔ = If the migration of total Tin is below the maximum limit for Organic Tin, it can be inferred that the material complies with the requirements for Organic Tin.

- Organic tin test result was expressed as tributyl tin.

- As per EC decision 2013/492/EU of 7 October 2013 and in accordance with Court's Order of 15 May 2013 in case T-198/12R, the European Commission authorizes that the national provisions notified by the Federal Republic of Germany concerning limit values for Antimony(Sb)(60mg/kg), Arsenic (As)(25mg/kg), Mercury (Hg)(60mg/kg), Barium (Ba)(1000mg/kg) and Lead (Pb)(90mg/kg) in toys be maintained beyond 20 July 2013.

# = Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

\* = Confirmation test was performed on the tested component. The reported value was the sum of the migration values of Methyl tin, Butyl tin, Dibutyl tin, Tributyl tin, Tetrabutyl tin, n-Octyl tin, Di-n-octyl tin, Di-n-propyl tin, Diphenyl tin and Triphenyl tin after converted to Tributyl tin by calculation.

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## TEST REPORT

Number: BKKH16005543

Test conducted:

Tested components:

|                                      | Report             | Date         |
|--------------------------------------|--------------------|--------------|
| (1) 5020038 : Lacquer Water Base     | REFER BKKH15000568 | Jan 21, 2015 |
| (2) 5029034 Green Coating On Wood    | REFER BKKH15002674 | Mar 09, 2015 |
| (3) 5320039 : Gray Coating On Wood   | REFER BKKH15002903 | Mar 09, 2015 |
| (4) 5020031 Green coating on wood    | REFER BKKH15010877 | Aug 28, 2015 |
| (5) Solid wood                       | REFER BKKH15014517 | Nov 20, 2015 |
| (6) Sawdust Wood                     | REFER BKKH15014517 | Nov 20, 2015 |
| (7) 5023006 Red Sawdust              | REFER BKKH15014511 | Nov 26, 2015 |
| (8) 5023009 Blue Sawdust             | REFER BKKH15014512 | Nov 27, 2015 |
| (9) 5029037 Red Coating On Wood      | REFER BKKH15014512 | Nov 27, 2015 |
| (10) 5020035 Yellow Coating On Wood  | REFER BKKH15014510 | Nov 27, 2015 |
| (11) 5020029 White Coating On Wood   | REFER BKKH15014509 | Nov 27, 2015 |
| (12) 5023003 : Orange Sawdust        | REFER BKKH15015045 | Dec 09, 2015 |
| (13) BLACK RUBBER                    | REFER BKKH16000976 | Jan 27, 2016 |
| (14) WHITE PLASTIC (WHEEL)           | REFER BKKH16000976 | Jan 27, 2016 |
| (15) Black plastic                   | REFER BKKH16004153 | Mar 28, 2016 |
| (16) 5029036 : Black coating on wood | REFER BKKH16004630 | Apr 08, 2016 |
| (17) 5320018 White Coating On Wood   | REFER BKKH15014515 | Nov 27, 2015 |
| (18) 5320019 Black Coating On Wood   | REFER BKKH15014515 | Nov 27, 2015 |

### Note:

1. The toxic elements of EN71-3(2013) was not conducted on the above components of samples. Applicant claimed the components were tested on our previous test report.
2. According to European standard on safety of toys EN71-3 (2013). As received, the test portion of the components are less than 10 mg, therefore such components were not tested for toxic.
3. As requested by the applicant, EN71-3 (2013) test was conducted only on components listed in this report. Other components were not tested.

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Number: BKKH16005543

## TEST REPORT

Test conducted:

(B) Categories of various toy materials

Category I: dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. the material can be ingested. contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

Category II: Liquid or Sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).

Comment:

When tested as specified, the results of the tested components MET the 19 toxic elements limits of the European Council Directive 2009/48/EC and amendment 2012/7/EU on the Safety of Toys.

Note: LOD and LOQ value in this test report were effective since October, 2014

\*\*\*\*\*END\*\*\*\*\*/KS/ST

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